FIBERS SITE GROUP

March 10, 2017

Via Email Electronic Copy

Adalberto Bosque, PhD, MBA, REM, CEA Response and Remediation Branch U.S Environmental Protection Agency City View Plaza II - Suite 7000 48 RD, 165 Km. 1.2 Guaynabo, PR 00968-8069

Subject: RD/RA Monthly Report – February 2017

Fibers Public Supply Wells Site

Guayama, Puerto Rico

Dear Mr. Bosque:

On behalf of the Fibers Public Supply Wells Site Settling Defendants, we are submitting the attached RD/RA Monthly Report prepared pursuant to the Consent Decree (Civil Action No. 92-2486) in the matter of *Unites States v. Anaquest Caribe, Inc. et al*, Section IX, Paragraph 30, Reporting Requirements.

Please feel free to contact Mr. James Kirschner of ARCADIS at (602) 797-4519 or me at (724) 544-4874 if you have any questions or comments regarding this submittal.

Sincerely,

Joe Biss, CHMM

Fibers Site Group Project Coordinator

EHS Support LLC

Copies:

Chief, New York/Caribbean Superfund Branch, Attn. Mel Hauptman- via email only

Ms. Evelyn Rivera-Ocasio, Assistant Regional Counsel – Caribbean Programs – via email only

Chief, Environmental Enforcement Division, U.S. Department of Justice (DOJ #90-11-2-768)

Amarilis Rodriguez Mendez, State Remedial Project Manager, Puerto Rico Environmental Quality Board - via email only

Ms. Katherine Mishkin, Hydrogeologist, USEPA Superfund Technical Support Section – via email only

Ms. Enid Diaz, Departmento de Recursos Naturales y Ambientales

Mr. Jorge Morales, PRIDCO - via email only

Mr. Joel Melendez Rodriguez, PRIDCO - via email only

Ms. Ana Palou Balsa, PRIDCO - via email only

Mr. Dan Vineyard, Jackson Walker- via email only

James Kirschner, Arcadis - via email only

RD/RA Monthly Report – February 2017 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

(a) Description of actions which have been taken toward achieving compliance with this Decree.

Fibers Air Stripping System

The Fibers groundwater extraction and treatment system (GWETS) was operational for approximately 97% of the time during February 2017. The GWETS had one automated shut down due to a power outage and two shut downs due to GWETS maintenance, and was restarted at the Site the same business day.

A summary of the daily treatment system operating records is presented in Table 1. The GWETS average flow rates are depicted on Figure 1. The GWETS operated at an average flow rate of 343 gallons per minute (gpm) and treated approximately 14.83 million gallons of water in February 2017. To date (since May 1999), approximately 3.08 billion gallons of water have been treated at the Fibers Site.

(b) Summary of all sampling results and tests, and all other data received or generated by Settling Defendants.

Groundwater influent and effluent samples were collected on February 2, 2017 and analyzed by Pace Analytical Services, Inc. (Pace). A summary of the February 2, 2017 GWETS Laboratory Analytical Results is provided in Table 2. A summary of influent groundwater concentrations of tetrachloroethene (PCE) and total haloethers from the GWETS is depicted on Figures 2 and 3, respectively.

Arcadis U.S., Inc. (Arcadis) performed a data quality assessment (validation) of the laboratory analytical results reported by Pace. Results are summarized in the Data Review Report #27245R and provided as Attachment 1. A copy of the chain of custody and annotated sample analysis data sheets are provided as an attachment to the Data Review Report. A copy of the complete Laboratory Analytical Report #2049726 is provided as Attachment 2. A copy of the GWETS Sampling and Monitoring Field Form, documenting sample collection information, individual flow rates at the three groundwater extraction wells and treatment system parameters is provided as Attachment 3.

(c) List of all work plans, plans and other deliverables completed and submitted.

None for this reporting period.

(d) Description of all actions, including, but not limited to, data collection and implementation of work plans, which are scheduled for the next six weeks.

The second semi-annual groundwater monitoring and sampling event of 2016 was completed in December 2016. Complete data packages were received from the laboratory and have been validated. The second semi-annual groundwater monitoring and sampling report of 2016 is anticipated to be submitted to the United States Environmental Protection Agency (USEPA) in the next six weeks.

The first semi-annual groundwater monitoring and sampling event of 2017 is expected to start in the next six weeks. Once the sampling event is complete and data packages are received from the laboratory and validated, the semi-annual groundwater report will be submitted to the USEPA.

Environmental Resource Technologies (ERTEC) is planning a soil vapor extraction pilot study at the Baxter-Guayama facility on the Fibers Site. The pilot test is now anticipated to commence in May 2017.

Arcadis conducted the second phase of a subsurface soil investigation on the Wyeth LLC leased portion of the Site in February 2017. Upon completion of the data validation, a summary of results will be submitted to the USEPA.

(e) Information regarding the percentage completion, unresolved delays encountered or anticipated.

Construction Activities – 100% complete.

System Start-Up – 100% complete.

Start-Up Performance Monitoring – 100% complete.

Long-Term Operation & Maintenance Period – In progress.

(f) List of any modification to work plans or other schedules the Settling Defendants have proposed.

None.

(g) Description of activities undertaken in support of the Community Relations Plan.

No support activities have been requested for the next planning period.

(h) Actions undertaken to address outside parties concerns.

No concerns from outside parties were encountered during this reporting period.



Table 1
Summary of Daily Treatment System Operating Records - February 2017
Fibers Public Supply Wells Superfund Site
Guayama, Puerto Rico

Recording Date	Influent Flow (gpm) 1	Effluent Flow (gpm) ²	RW-2 (gpm) ³	RW-4 (gpm) ⁴	RW-5 (gpm) ⁵	pH ⁶	Comments
2/1/2017	356	405	115	165	80	8.2	
2/2/2017	354	402	115	163	80	8.2	
2/3/2017	351	400	115	160	80	8.2	
2/4/2017	351	399	115	160	80	8.2	
2/5/2017	351	399	115	160	80	8.2	
2/6/2017	220	250	73	101	51	8.2	GWETS maintenance.
2/7/2017	351	400	115	160	80	8.2	
2/8/2017	351	400	115	160	80	8.2	
2/9/2017	335	371	110	153	77	7.5	Power outage.
2/10/2017	351	400	115	160	80	8.2	
2/11/2017	351	400	115	160	80	8.2	
2/12/2017	351	401	115	160	80	8.2	
2/13/2017	352	402	115	160	80	8.2	
2/14/2017	350	400	115	160	80	8.2	
2/15/2017	351	401	115	160	80	8.2	
2/16/2017	351	402	115	160	80	8.1	
2/17/2017	351	401	115	160	80	8.1	
2/18/2017	351	401	115	160	80	8.1	
2/19/2017	351	402	115	160	80	8.1	
2/20/2017	351	402	115	160	80	8.1	
2/21/2017	263	302	87	121	61	NR	GWETS maintenance.
2/22/2017	351	402	115	160	80	NR	
2/23/2017	346	402	110	160	80	NR	
2/24/2017	350	402	115	160	80	NR	
2/25/2017 7,8	350	402	115	160	80	NR	
2/26/2017 ^{7, 8}	350	402	115	160	80	NR	
2/27/2017 ^{7, 8}	350	402	115	160	80	NR	
2/28/2017 ^{7, 8}	350	402	115	160	80	NR	
Monthly Average	343	391	112	157	78	8.1	

Notes:

Flow rates are 24-hour daily average.

gpm = gallons per minute.

- ¹ = Recorded from instrument FIT-101.
- ² = Recorded from instrument FIT-301.
- 3 = Recorded from instrument RW2 FIT.
- ⁴ = Recorded from instrument RW4 FIT.
- ⁵ = Recorded from instrument RW5 FIT.
- ⁶ = Recorded from instrument pHIT-201A.
- 7 = Influent flow meter reading error; used average flow rate from 2/24/2017 (similar RW flow rates).
- 8 = Effluent flow meter reading error; used average flow rate from 2/24/2017 (similar RW flow rates).

NR = no reading. On February 21, 2017, the air stripper sump was down for maintenance and the pH probe was damaged beyond repair. Therefore, no system pH readings were recorded from February 21-28 as indicated on Table 1. Two new pH probes (one primary and one backup) have been ordered and the primary pH probe should be installed by mid-March.

Table 2 Summary of Treatment System Laboratory Analytical Results February 2017 Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Fibers Groundwater Extraction and Treatment System

Laboratory analytical results for water samples collected at the influent and effluent sample tap locations from the Fibers Groundwater Extraction and Treatment System on February 2, 2017 are presented below. The system average effluent flow rate at the time the samples were collected was 409 gallons per minute (gpm). Sample results indicate that the treatment system is operating in compliance with operating parameters pursuant to the Consent Decree.

		VOC (μg/L)	
		Samp	le ID	
Compound	EFF-20170202	EFFDUP-20170202	INF-20170202	TB-20170202
Tetrachloroethene	ND	ND	6.0	ND
Trichloroethene	ND	ND	ND	ND
Cis-1,2-dichloroethene	ND	ND	ND	ND
2-Butanone (MEK)	2.3	2.8	ND	ND
Enflurane	ND	ND	1.6	ND
Haloether 229	ND	ND	14.8	ND
Haloether 406	ND	ND	ND	ND
Haloether 508	ND	ND	32.7	ND
Haloether 528	ND	ND	ND	ND
Halomar	ND	ND	ND	ND
Isoflurane	ND	ND	69.1	ND
Total Haloethers	ND	ND	118	ND
Acetone	15.5	15.7	28.7	36.5 J+
Other VOC	ND	ND	ND	ND

Notes:

VOC = volatile organic compounds.

μg/L = micrograms per liter.

EFF = effluent sample.

EFFDUP = effluent duplicate sample.

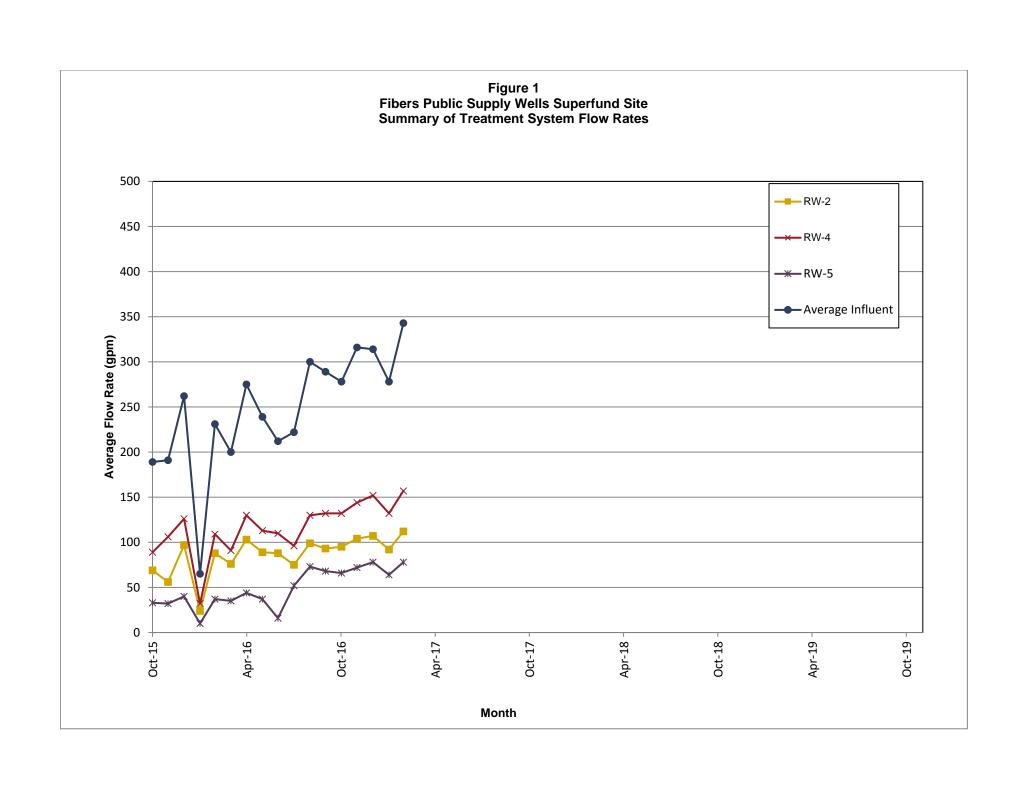
INF = influent sample.

TB = trip blank.

ND = not detected at or above laboratory reporting limit.

J+ = The compound was positively identified; however, the associated numerical value is an estimated concentration only (potential high bias).





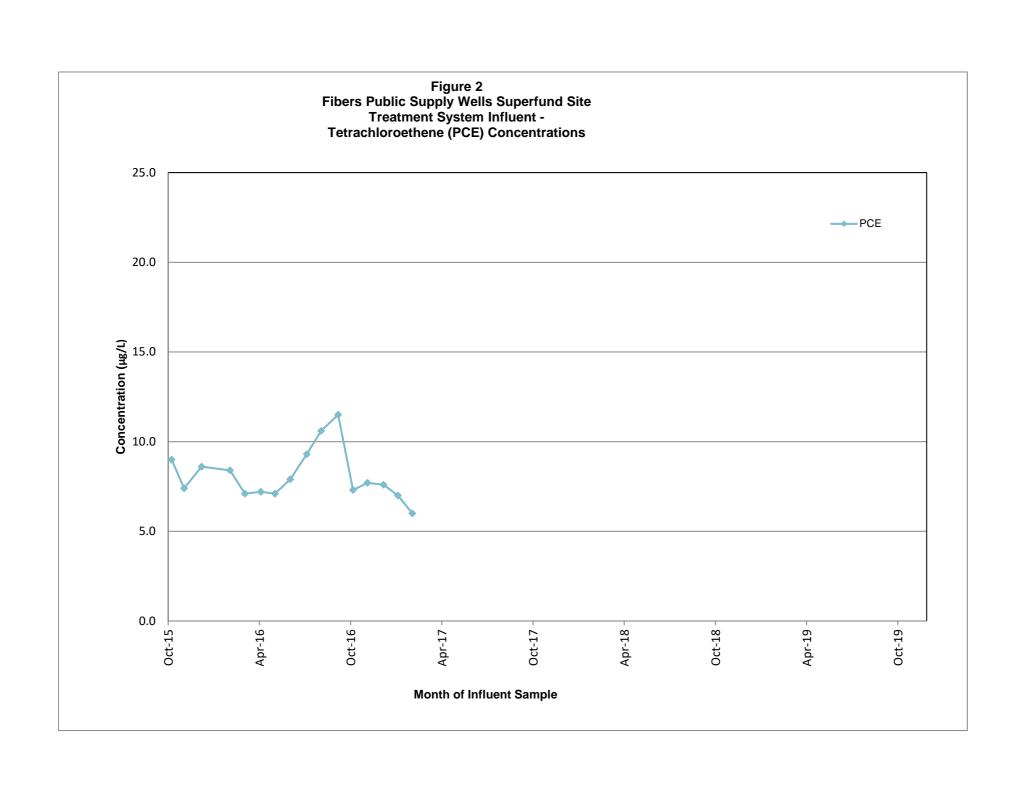
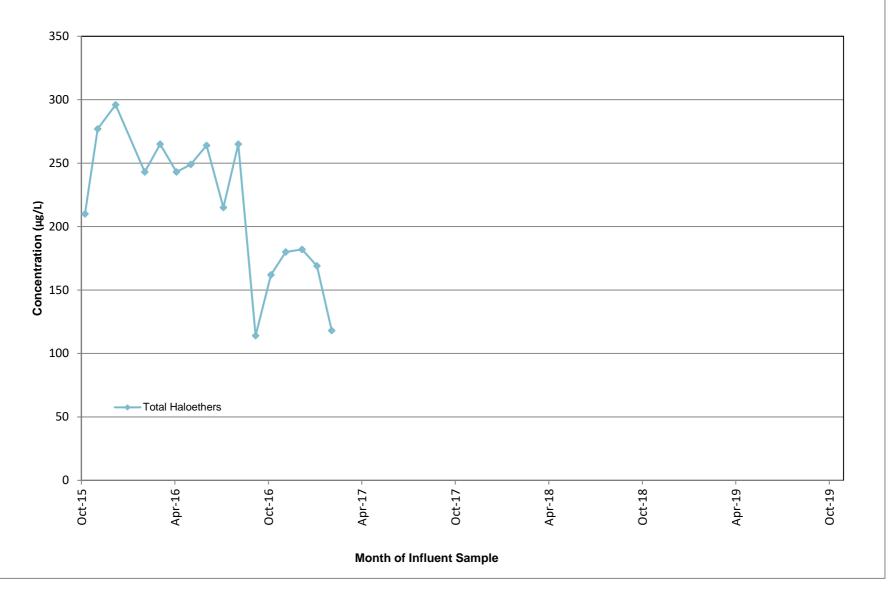


Figure 3
Fibers Public Supply Wells Superfund Site
Treatment System Influent Total Haloethers Concentrations



Attachment 1 Data Review Report #27245R



Fibers Group

Data Review

GUAYAMA, PUERTO RICO

Volatiles Analyses

SDG #2049726 Analyses Performed By: Pace Analytical Services, Inc. New Orleans, Louisiana

Report: #27245R Review Level: Tier II

Project: CO001911.0003.1605A

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) #2049726 for samples collected in association with the Fibers Group Site. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Included with this assessment are the validation annotated sample result sheets and chain of custody. Analyses were performed on the following samples:

			Sample	Parent		A	nalys	is	
Sample ID	Lab ID	Matrix	Collection Date	Sample	voc	svoc	TPH	MET	MISC
TB-20170202	2049726001	Water	02/02/2017		Х				
INF-20170202	2049726002	Water	02/02/2017		Х				
EFF-20170202	2049726003	Water	02/02/2017		Х				
EFFDUP-20170202	2049726004	Water	02/02/2017	EFF-20170202	Х				

Note:

1. The matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample location EFF-20170202.

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- · Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. QC serves to increase confidence in data but any value potentially contains error.	Strict

3

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to <6 °C; preserved to a pH of less than 2 s.u.
377-840 8200	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

s.u. Standard units

All samples were analyzed within acceptable holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the RL, with the exception of the compound Acetone. The associated trip blank (TB) was stored on-site prior to the sampling of site locations. Therefore, only the associated method blank was used to evaluate process blank contamination. Due to the storage of the TB, the associated result of this sample has been qualified as biased high (J+).

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

Sample locations associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample Locations	Compound	MS Recovery	MSD Recovery
	Carbon disulfide	5111	4.0
	Methoxyflurane	>UL	AC
FFF 20170202	o-Xylene	< LL but > 10%	< LL but > 10%
EFF-20170202	Styrene		
	Acrolein	<10%	<10%
	m&p-Xylene		

AC Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper control limit (UL)	Non-detect	No Action
> tile upper control littlit (OL)	Detect	J
< the lower control limit (LL) but > 10%	Non-detect	UJ
the lower control liftin (LL) but > 10%	Detect	J
< 10%	Non-detect	R
< 10 70	Detect	J
Parent sample concentration > four times the MS/MSD	Detect	No Action
spiking solution concentration.	Non-detect	INO ACTION

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than of the control limit presented in the following table.

Sample Locations	Compound
	Carbon disulfide
	Bromomethane
EFF-20170202	Chloroethane
	Chloromethane
	Vinyl chloride

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
/ UL	Detect	J

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
EFF-20170202/	Acetone	15.5	15.7	AC
EFFDUP-20170202	2-Butanone (MEK)	2.3	2.8	AC

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

7. System Performance and Overall Assessment

Note: The laboratory qualified all Acetone results with a C9 qualifier to indicate that this compound is a "Common Laboratory Contaminant". This qualifier was removed for reporting purposes.

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Repo	orted		mance otable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY	(GC/MS)			
Tier II Validation					
Holding times		X		Х	
Reporting limits (units)		X		Х	
Blanks					
A. Method blanks		Х		Х	
B. Equipment/Field blanks					Х
C. Trip blanks		Х	Х		
Laboratory Control Sample (LCS) Accuracy (%R)		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R					Х
LCS/LCSD Precision (RPD)					Х
Matrix Spike (MS) %R		Х	Х		
Matrix Spike Duplicate (MSD) %R		Х	Х		
MS/MSD Precision RPD		Х	Х		
Field/Laboratory Duplicate Sample RPD		Х		Х	
Surrogate Spike %R		Х		Х	
Dilution Factor		Х		Х	
Moisture Content					Х

%R Percent recovery
RPD Relative percent difference
%RSD Relative standard deviation

Percent difference %D

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

DATE: February 27, 2017

Joseph C. House

PEER REVIEW: Dennis Capria

DATE: March 3, 2017

CHAIN OF CUSTODY/ ANNOTATED SAMPLE ANALYSIS DATA SHEETS



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: TB-20170202	Lab ID: 2	2049726001	Collected: 02/02/1	7 00:00	Received:	02/03/17 09:40 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical M	Method: EPA 50	030B/8260					
Acetone	36.5	ug/L	4.0	1		02/07/17 17:54	67-64-1	-c9- J
Acrolein	ND	ug/L	8.0	1		02/07/17 17:54	107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 17:54	107-13-1	
Benzene	ND	ug/L	1.0	1		02/07/17 17:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 17:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/07/17 17:54	75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/07/17 17:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/07/17 17:54	78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/07/17 17:54	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/07/17 17:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/07/17 17:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		02/07/17 17:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/07/17 17:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		02/07/17 17:54	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 17:54	124-48-1	
Dibromomethane	ND	ug/L	1.0	1		02/07/17 17:54	74-95-3	
1,1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 17:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 17:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 17:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 17:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 17:54	10061-02-6	
Enflurane	ND	ug/L	1.0	1		02/07/17 17:54	13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 17:54	100-41-4	
Haloether 229	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
Haloether 406	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
Haloether 421	ND	ug/L	1.0	1		02/07/17 17:54	ļ	
Haloether 427	ND	ug/L	1.0	1		02/07/17 17:54	ļ	
Haloether 428	ND	ug/L	1.0	1		02/07/17 17:54	ļ	
Haloether 508	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
Haloether 528	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
Halomar	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
2-Hexanone	ND	ug/L	2.0	1		02/07/17 17:54	591-78-6	
soflurane	ND	ug/L	1.0	1		02/07/17 17:54	ļ.	
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 17:54	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 17:54	108-10-1	
Styrene	ND	ug/L	1.0	1		02/07/17 17:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 17:54	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/07/17 17:54	127-18-4	
Toluene	ND	ug/L	1.0	1		02/07/17 17:54		
Total Haloether	ND	-	1.0	1		02/07/17 17:54		
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 17:54		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 17:54		
Trichloroethene	ND	ug/L	1.0	1		02/07/17 17:54		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: TB-20170202	Lab ID: 2049726001		Collected: 02/02/17 00:00		Received: 02/03/17 09:40 Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 17:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 17:54	76-13-1	
√inyl chloride	ND	ug/L	1.0	1		02/07/17 17:54	75-01-4	
n&p-Xylene	ND	ug/L	2.0	1		02/07/17 17:54	179601-23-1	
p-Xylene	ND	ug/L	1.0	1		02/07/17 17:54	95-47-6	
Surrogates		•						
Toluene-d8 (S)	100	%.	79-119	1		02/07/17 17:54	2037-26-5	
I-Bromofluorobenzene (S)	98	%.	68-124	1		02/07/17 17:54	460-00-4	
Dibromofluoromethane (S)	103	%.	72-126	1		02/07/17 17:54	1868-53-7	
Sample: INF-20170202	Lab ID: 204	9726002	Collected: 02/02/1	7 10:50	Received: 0	2/03/17 09:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50						·
Acetone	28.7	ug/L	4.0	1		02/07/17 18:47	67-64-1	C9
Acrolein	ND	•	8.0	1		02/07/17 18:47		C3
	ND ND	ug/L	4.0	1		02/07/17 18:47		
Acrylonitrile		ug/L						
Senzene	ND	ug/L	1.0	1		02/07/17 18:47		
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Bromoform	ND	ug/L	1.0	1		02/07/17 18:47		
Bromomethane (MEK)	ND	ug/L	1.0	1		02/07/17 18:47		
2-Butanone (MEK)	ND	ug/L	2.0	1		02/07/17 18:47		
Carbon disulfide	ND	ug/L	1.0	1		02/07/17 18:47		
Carbon tetrachloride	ND	ug/L	1.0	1		02/07/17 18:47		
Chlorobenzene	ND	ug/L	1.0	1		02/07/17 18:47		
Chloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
Chloroform	ND	ug/L	1.0	1		02/07/17 18:47		
Chloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 18:47		
,1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
is-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 18:47		
is-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:47	10061-01-5	
ans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:47		
Enflurane	1.6	ug/L	1.0	1		02/07/17 18:47	13838-16-9	
thylbenzene	ND	ug/L	1.0	1		02/07/17 18:47	100-41-4	
Haloether 229	14.8	ug/L	1.0	1		02/07/17 18:47		
Haloether 406	ND	ug/L	1.0	1		02/07/17 18:47		
laloether 421	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 427	ND	ug/L	1.0	1		02/07/17 18:47		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: INF-20170202	Lab ID: 2049	726002	Collected: 02/02/1	7 10:50	Received: 0	2/03/17 09:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
260 MSV HALOETHERS	Analytical Meth	od: EPA 50	030B/8260					
Haloether 428	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 508	32.7	ug/L	1.0	1		02/07/17 18:47		
Haloether 528	ND	ug/L	1.0	1		02/07/17 18:47		
Halomar	ND	ug/L	1.0	1		02/07/17 18:47		
2-Hexanone	ND	ug/L	2.0	1		02/07/17 18:47	591-78-6	
soflurane	69.1	ug/L	1.0	1		02/07/17 18:47		
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 18:47	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 18:47		
I-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 18:47		
Styrene	ND	ug/L	1.0	1		02/07/17 18:47		
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
etrachloroethene	6.0	ug/L	1.0	1		02/07/17 18:47		
oluene	ND		1.0	1		02/07/17 18:47		
		ug/L		1				
Total Haloether	118	ug/L	1.0			02/07/17 18:47		
I,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
I,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
Trichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
Frichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 18:47		
,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 18:47		
,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 18:47		
/inyl chloride	ND	ug/L	1.0	1		02/07/17 18:47		
n&p-Xylene	ND	ug/L	2.0	1		02/07/17 18:47		
o-Xylene	ND	ug/L	1.0	1		02/07/17 18:47	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%.	79-119	1		02/07/17 18:47		
I-Bromofluorobenzene (S)	99	%.	68-124	1		02/07/17 18:47	460-00-4	
Dibromofluoromethane (S)	102	%.	72-126	1		02/07/17 18:47	1868-53-7	
Sample: EFF-20170202	Lab ID: 2049	9726003	Collected: 02/02/1	7 11:15	Received: 0	2/03/17 09:40 N	Matrix: Water	
•								
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
				DF	Prepared	Analyzed	CAS No.	Qual
3260 MSV HALOETHERS	Results	od: EPA 50		DF 1	Prepared	Analyzed 02/07/17 17:36		Qual
3260 MSV HALOETHERS Acetone	Results Analytical Meth	od: EPA 50 ug/L			Prepared		67-64-1	
a260 MSV HALOETHERS Acetone Acrolein	Results Analytical Meth	ug/L ug/L	030B/8260 4.0 8.0		Prepared	02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8	C9-
B260 MSV HALOETHERS Acetone Acrolein Acrylonitrile	Analytical Meth	ug/L ug/L ug/L ug/L	030B/8260 4.0 8.0 4.0	1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1	C9-
azetone Acrolein Acrylonitrile Benzene	Results Analytical Methods 15.5 ND ND ND	ug/L ug/L ug/L ug/L ug/L	330B/8260 4.0 8.0 4.0 1.0	1 1 1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2	C9-
azetone Acrolein Acrylonitrile Benzene Bromodichloromethane	Analytical Methods 15.5 ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0	1 1 1 1 1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4	C9-
Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform	Analytical Methods 15.5 ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0	1 1 1 1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2	C9 - M1 R
Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromomethane Bromomethane	Analytical Methods 15.5 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0	1 1 1 1 1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9	C9-
Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane B-Butanone (MEK)	Analytical Methods 15.5 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1	Prepared	02/07/17 17:36 92/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3	69- M1 R
Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide	Analytical Methods 15.5 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1 1	Prepared	02/07/17 17:36 92/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0	C9 - M1 R
Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride	Analytical Methods 15.5 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0 1.0	1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared	02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5	69- M1 R
Parameters 3260 MSV HALOETHERS Acetone Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane	Analytical Methods 15.5 ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	4.0 8.0 4.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1 1	Prepared	02/07/17 17:36 92/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36 02/07/17 17:36	67-64-1 107-02-8 107-13-1 71-43-2 75-27-4 75-25-2 74-83-9 78-93-3 75-15-0 56-23-5 108-90-7	69- M1 R

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFF-20170202	Lab ID: 204	9726003	Collected: 02/02/1	7 11:15	Received: 0)2/03/17 09:40 M	fatrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qı	ual
8260 MSV HALOETHERS	Analytical Met	hod: EPA 5	030B/8260						
Chloromethane	ND	ug/L	1.0	1		02/07/17 17:36	74-87-3	R1	UJ
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 17:36	124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 17:36	74-95-3		
1,1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 17:36	75-34-3		
1,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 17:36	107-06-2		
1,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:36	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:36	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:36	156-60-5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 17:36	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 17:36	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 17:36	10061-02-6		
Enflurane	ND	ug/L	1.0	1		02/07/17 17:36	13838-16-9		
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 17:36	100-41-4		
Haloether 229	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 406	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 421	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 427	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 428	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 508	ND	ug/L	1.0	1		02/07/17 17:36			
Haloether 528	ND	ug/L	1.0	1		02/07/17 17:36			
Halomar	ND	ug/L	1.0	1		02/07/17 17:36			
2-Hexanone	ND	ug/L	2.0	1		02/07/17 17:36	591-78-6		
Isoflurane	ND	ug/L	1.0	1		02/07/17 17:36			
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 17:36	76-38-0	-M1-	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 17:36	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 17:36	108-10-1		
Styrene	-ND	ug/L	1.0	1		02/07/17 17:36	100-42-5	-M1	R
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 17:36	79-34-5		
Tetrachloroethene	ND	ug/L	1.0	1		02/07/17 17:36	127-18-4		
Toluene	ND	ug/L	1.0	1		02/07/17 17:36	108-88-3		
Total Haloether	ND	ug/L	1.0	1		02/07/17 17:36			
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 17:36	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 17:36	79-00-5		
Trichloroethene	ND	ug/L	1.0	1		02/07/17 17:36	79-01-6		
Trichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 17:36	75-69-4		
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 17:36	96-18-4		
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 17:36			
Vinyl chloride	ND	ug/L	1.0	1		02/07/17 17:36		R1	UJ
m&p-Xylene	-ND	ug/L	2.0	1		02/07/17 17:36		M1	R
o-Xylene	ND	ug/L	1.0	1		02/07/17 17:36		M1	UJ
Surrogates		- J. –							
Toluene-d8 (S)	98	%.	79-119	1		02/07/17 17:36	2037-26-5		
4-Bromofluorobenzene (S)	98	%.	68-124	1		02/07/17 17:36	460-00-4		
Dibromofluoromethane (S)	104	%.	72-126	1		02/07/17 17:36			



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFFDUP-20170202	Lab ID: 204	9726004	Collected: 02/02/1	7 11:15	Received:	02/03/17 09:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3260 MSV HALOETHERS	Analytical Met	hod: EPA 5	030B/8260					
Acetone	15.7	ug/L	4.0	1		02/07/17 18:12	2 67-64-1	C9
Acrolein	ND	ug/L	8.0	1		02/07/17 18:12	2 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 18:12	2 107-13-1	
Benzene	ND	ug/L	1.0	1		02/07/17 18:12	2 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 18:12	2 75-27-4	
Bromoform	ND	ug/L	1.0	1		02/07/17 18:12	2 75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/07/17 18:12	2 74-83-9	
2-Butanone (MEK)	2.8	ug/L	2.0	1		02/07/17 18:12	2 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/07/17 18:12	2 75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/07/17 18:12	2 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/07/17 18:12		
Chloroethane	ND	ug/L	1.0	1		02/07/17 18:12		
Chloroform	ND	ug/L	1.0	1		02/07/17 18:1:		
Chloromethane	ND	ug/L	1.0	1		02/07/17 18:1:		
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 18:12		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 18:12		
1.1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:12		
,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:12		
,1-Dichloroethene	ND ND	ug/L	1.0	1		02/07/17 18:12		
cis-1,2-Dichloroethene	ND ND	_	1.0	1		02/07/17 18:12		
•		ug/L		1				
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:13		
I,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 18:1:		
cis-1,3-Dichloropropene	ND	ug/L	1.0			02/07/17 18:1:		
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:13		
Enflurane	ND	ug/L	1.0	1		02/07/17 18:1:		
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 18:1:		
Haloether 229	ND	ug/L	1.0	1		02/07/17 18:1:		
Haloether 406	ND	ug/L	1.0	1		02/07/17 18:12		
Haloether 421	ND	ug/L	1.0	1		02/07/17 18:12		
Haloether 427	ND	ug/L	1.0	1		02/07/17 18:12		
Haloether 428	ND	ug/L	1.0	1		02/07/17 18:12		
Haloether 508	ND	ug/L	1.0	1		02/07/17 18:12		
Haloether 528	ND	ug/L	1.0	1		02/07/17 18:12		
Halomar	ND	ug/L	1.0	1		02/07/17 18:12		
2-Hexanone	ND	ug/L	2.0	1		02/07/17 18:12	2 591-78-6	
soflurane	ND	ug/L	1.0	1		02/07/17 18:12	2	
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 18:12	2 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 18:12	2 75-09-2	
-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 18:12	2 108-10-1	
Styrene	ND	ug/L	1.0	1		02/07/17 18:12	2 100-42-5	
,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 18:12	2 79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		02/07/17 18:12	2 127-18-4	
Toluene	ND	ug/L	1.0	1		02/07/17 18:12	2 108-88-3	
Total Haloether	ND	ug/L	1.0	1		02/07/17 18:12	2	
,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:12	2 71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:12		
Frichloroethene	ND	ug/L	1.0	1		02/07/17 18:12		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFFDUP-20170202	Lab ID: 2049726004		Collected: 02/02/17 11:15		Received: 02/03/17 09:40		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 18:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 18:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 18:12	? 76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/07/17 18:12	2 75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/07/17 18:12	2 179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/07/17 18:12	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/07/17 18:12	2 2037-26-5	
4-Bromofluorobenzene (S)	97	%.	68-124	1		02/07/17 18:12	2 460-00-4	
Dibromofluoromethane (S)	103	%.	72-126	1		02/07/17 18:12	1868-53-7	

MO#: 2049726

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately,

SAMPLE CONDITIONS Comments ŏ Regulatory Agenc State / Location Residual Chlorine (Y/N) TIME EPA 300.0 Chloride DATE 35K 175 Methane PA 6010 Total Metals (Fe, Mn) EPA 6010 Dissolved Metals (Fe, Mn justin.stock@pacelabs.com ACCEPTED BY / AFFILIATION SM 2320B Alkalinity PA 8260B Haloethers XX N/A Analyses Test Accounts Payable lons/iteM Preservatives N^SS^SO³ HOBN Pace Quote: Pace Project Manager: 50 cm cm IOI-Invoice Information: Company Name: e ONH Pace Profile # ⁵os²H Attention: 02/01/10/1330 2-3-1- CAYO TIME Unpreserved (7)(7) 3 # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION DATE Capilli Can 201 N 105 TIME 202 N 115 2111 Kl 20/20 2 per 1/3 1155 Still Walso END 1602A Fibers Public Supply Wells DATE COLLECTED Arcade cassandra.mccloud@arcadis-us.com RELINQUISHED BY / AFFILIATION CO001911.0003 CO001911.0003 1602A TIME Cassandra McCloud START DATE Report To: David Howard André Colom 3 くなる <u>3</u> 3 O O (G=GRA8 C=COMP) **34YT 3J9MA**2 Purchase Order #: Ϋ́ ¥ MATRIX CODE (see valid codes to left) Project Name: Copy To: roject #: 12 A M M M M MATRIX
Drinkling Water
Waste Water
Waste Waste Product
SouliSolid
Oil
Wipe
Air
Other B- 2017 0202 david.howard@arcadis-us.com ARCADIS U.S., Inc. 410 North 44th St., Suite 1000 NF - 201/2020 ADDITIONAL COMMENTS One Character per box. (A-2, 0-9 /, -) Sample Ids must be unique EPFDUP -201702-02 EFFIRS 2017 02.02 FFTMX720116207 FFF- 2000203 SAMPLE ID 602.797.4518 Required Client Information Requested Due Date Phoenix, AZ 8 Email To: d ompany: # WELL ဖ 8 6 10 Ξ 12

Page 20 of 21

(N/A) SaliqmeS

(N/Y)

Cooler pelice Custody (N/λ)

Received on

TEMP in C

5

DATE Signed:

<u>(ूड</u>)

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

Attachment 2 Laboratory Analytical Report #2049726





February 16, 2017

David Howard ARCADIS 410 North 44th St. Suite 1000 Phoenix, AZ 85008

RE: Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Dear David Howard:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Craig McCollum

a Mc Collen,

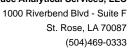
craig.mccollum@pacelabs.com

Project Manager

Enclosures

cc: Janisse Diaz, Arcadis Cassandra McCloud Gisela Hernandez Rivera, Arcadis Elvin Varela, ARCADIS







CERTIFICATIONS

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:

11277CA

Florida Department of Health (NELAC): E87595 Illinois Environmental Protection Agency: 0025721 Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Pennsylviania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-

00119

Commonwealth of Virginia (TNI): 480246



SAMPLE SUMMARY

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2049726001	TB-20170202	Water	02/02/17 00:00	02/03/17 09:40
2049726002	INF-20170202	Water	02/02/17 10:50	02/03/17 09:40
2049726003	EFF-20170202	Water	02/02/17 11:15	02/03/17 09:40
2049726004	EFFDUP-20170202	Water	02/02/17 11:15	02/03/17 09:40

(504)469-0333



SAMPLE ANALYTE COUNT

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2049726001	TB-20170202	EPA 5030B/8260	RMP	56	PASI-N
2049726002	INF-20170202	EPA 5030B/8260	RMP	56	PASI-N
2049726003	EFF-20170202	EPA 5030B/8260	RMP	56	PASI-N
2049726004	EFFDUP-20170202	EPA 5030B/8260	RMP	56	PASI-N

(504)469-0333



PROJECT NARRATIVE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: February 16, 2017

General Information:

4 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 73753

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2049726003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 309504)
 - Acrolein
 - Carbon disulfide
 - Methoxyflurane
 - Styrene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 309505)
 - Acrolein
 - Styrene
 - m&p-Xylene
 - o-Xylene



PROJECT NARRATIVE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Method: EPA 5030B/8260

Description: 8260 MSV HALOETHERS

Client: ARCADIS

Date: February 16, 2017

QC Batch: 73753

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 2049726003

R1: RPD value was outside control limits.

• MSD (Lab ID: 309505)

- Bromomethane
- Carbon disulfide
- Chloroethane
- Chloromethane
- Vinyl chloride

Additional Comments:

Analyte Comments:

QC Batch: 73753

C9: Common Laboratory Contaminant.

- EFF-20170202 (Lab ID: 2049726003)
 - Acetone
- EFFDUP-20170202 (Lab ID: 2049726004)
 - Acetone
- INF-20170202 (Lab ID: 2049726002)
 - Acetone
- TB-20170202 (Lab ID: 2049726001)
 - Acetone

This data package has been reviewed for quality and completeness and is approved for release.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: TB-20170202	Lab ID: 204	9726001	Collected: 02/02/1	7 00:00	Received:	02/03/17 09:40	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 5	030B/8260					
Acetone	36.5	ug/L	4.0	1		02/07/17 17:5	4 67-64-1	C9
Acrolein	ND	ug/L	8.0	1		02/07/17 17:5	4 107-02-8	
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 17:5	4 107-13-1	
Benzene	ND	ug/L	1.0	1		02/07/17 17:5	4 71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 17:5	4 75-27-4	
Bromoform	ND	ug/L	1.0	1		02/07/17 17:5	4 75-25-2	
Bromomethane	ND	ug/L	1.0	1		02/07/17 17:5	4 74-83-9	
2-Butanone (MEK)	ND	ug/L	2.0	1		02/07/17 17:5	4 78-93-3	
Carbon disulfide	ND	ug/L	1.0	1		02/07/17 17:5	4 75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		02/07/17 17:5	4 56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		02/07/17 17:5		
Chloroethane	ND	ug/L	1.0	1		02/07/17 17:5		
Chloroform	ND	ug/L	1.0	1		02/07/17 17:5		
Chloromethane	ND	ug/L	1.0	1		02/07/17 17:5		
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 17:5		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 17:5		
1,1-Dichloroethane	ND ND	ug/L ug/L	1.0	1		02/07/17 17:5		
I,2-Dichloroethane	ND ND	-	1.0	1		02/07/17 17:5		
,		ug/L						
I,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:5		
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:5		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 17:5		
1,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 17:5		
cis-1,3-Dichloropropene	ND	ug/L	1.0	1			4 10061-01-5	
rans-1,3-Dichloropropene	ND	ug/L	1.0	1			4 10061-02-6	
Enflurane	ND	ug/L	1.0	1			4 13838-16-9	
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 17:5		
Haloether 229	ND	ug/L	1.0	1		02/07/17 17:5		
Haloether 406	ND	ug/L	1.0	1		02/07/17 17:5	4	
Haloether 421	ND	ug/L	1.0	1		02/07/17 17:5	4	
Haloether 427	ND	ug/L	1.0	1		02/07/17 17:5	4	
Haloether 428	ND	ug/L	1.0	1		02/07/17 17:5	4	
Haloether 508	ND	ug/L	1.0	1		02/07/17 17:5	4	
Haloether 528	ND	ug/L	1.0	1		02/07/17 17:5	4	
Halomar	ND	ug/L	1.0	1		02/07/17 17:5	4	
2-Hexanone	ND	ug/L	2.0	1		02/07/17 17:5	4 591-78-6	
soflurane	ND	ug/L	1.0	1		02/07/17 17:5	4	
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 17:5	4 76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 17:5	4 75-09-2	
1-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 17:5	4 108-10-1	
Styrene	ND	ug/L	1.0	1		02/07/17 17:5		
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 17:5		
Tetrachloroethene	ND	ug/L	1.0	1		02/07/17 17:5		
Toluene	ND	ug/L	1.0	1		02/07/17 17:5	_	
Total Haloether	ND	ug/L	1.0	1		02/07/17 17:5		
1,1,1-Trichloroethane	ND ND	ug/L ug/L	1.0	1		02/07/17 17:5		
		-		1				
1,1,2-Trichloroethane	ND ND	ug/L ug/L	1.0 1.0	1		02/07/17 17:5 02/07/17 17:5		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: TB-20170202	Lab ID: 204	9726001	Collected: 02/02/1	7 00:00	Received: 0			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 17:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 17:54	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 17:54	76-13-1	
/inyl chloride	ND	ug/L	1.0	1		02/07/17 17:54	75-01-4	
n&p-Xylene	ND	ug/L	2.0	1		02/07/17 17:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/07/17 17:54	95-47-6	
Surrogates		•						
Toluene-d8 (S)	100	%.	79-119	1		02/07/17 17:54	2037-26-5	
1-Bromofluorobenzene (S)	98	%.	68-124	1		02/07/17 17:54	460-00-4	
Dibromofluoromethane (S)	103	%.	72-126	1		02/07/17 17:54	1868-53-7	
Sample: INF-20170202	Lab ID: 204	9726002	Collected: 02/02/1	7 10:50	Received: 0	2/03/17 09:40 N	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
3260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	 030B/8260					
Acetone	28.7	ug/L	4.0	1		02/07/17 18:47	67-64-1	C9
Acrolein	ND	ug/L	8.0	1		02/07/17 18:47		00
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 18:47		
Benzene	ND	ug/L	1.0	1		02/07/17 18:47		
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Bromoform	ND	ug/L	1.0	1		02/07/17 18:47		
Bromomethane	ND ND	•	1.0	1		02/07/17 18:47		
2-Butanone (MEK)	ND ND	ug/L	2.0	1		02/07/17 18:47		
Carbon disulfide	ND ND	ug/L	1.0	1		02/07/17 18:47		
Carbon distillide Carbon tetrachloride	ND ND	ug/L	1.0	1		02/07/17 18:47		
Chlorobenzene	ND ND	ug/L	1.0	1		02/07/17 18:47		
		ug/L		1				
Chloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
Chloroform	ND	ug/L	1.0			02/07/17 18:47		
Chloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 18:47		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 18:47		
,1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
sis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 18:47		
sis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:47		
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:47		
Enflurane	1.6	ug/L	1.0	1		02/07/17 18:47		
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 229	14.8	ug/L	1.0	1		02/07/17 18:47		
Haloether 406	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 421	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 427	ND	ug/L	1.0	1		02/07/17 18:47		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: INF-20170202	Lab ID: 204	9726002	Collected: 02/02/1	7 10:50	Received: 0	2/03/17 09:40 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Haloether 428	ND	ug/L	1.0	1		02/07/17 18:47		
Haloether 508	32.7	ug/L	1.0	1		02/07/17 18:47		
Haloether 528	ND	ug/L	1.0	1		02/07/17 18:47		
-lalomar	ND	ug/L	1.0	1		02/07/17 18:47		
2-Hexanone	ND	ug/L	2.0	1		02/07/17 18:47	591-78-6	
soflurane	69.1	ug/L	1.0	1		02/07/17 18:47		
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 18:47	76-38-0	
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 18:47	75-09-2	
1-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1		02/07/17 18:47	108-10-1	
Styrene	ND	ug/L	1.0	1		02/07/17 18:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/07/17 18:47	79-34-5	
Tetrachloroethene	6.0	ug/L	1.0	1		02/07/17 18:47	127-18-4	
Toluene	ND	ug/L	1.0	1		02/07/17 18:47	108-88-3	
Total Haloether	118	ug/L	1.0	1		02/07/17 18:47		
I,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:47		
richloroethene	ND	ug/L	1.0	1		02/07/17 18:47		
Frichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 18:47		
,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 18:47		
,1,2-Trichlorotrifluoroethane	ND ND	•	1.0	1		02/07/17 18:47		
		ug/L		1				
/inyl chloride	ND	ug/L	1.0			02/07/17 18:47		
m&p-Xylene	ND	ug/L	2.0	1		02/07/17 18:47		
o-Xylene	ND	ug/L	1.0	1		02/07/17 18:47	95-47-6	
S <i>urrogates</i> Foluene-d8 (S)	100	%.	79-119	1		02/07/17 18:47	2027 26 5	
` ,	99	%. %.	68-124	1		02/07/17 18:47		
1-Bromofluorobenzene (S) Dibromofluoromethane (S)	102	%. %.	72-126	1		02/07/17 18:47		
Distribution of the trial te (3)	102	/0.	72-120	'		02/07/17 10.47	1000-33-7	
Sample: EFF-20170202	Lab ID: 204	9726003	Collected: 02/02/1	7 11:15	Received: 02	2/03/17 09:40 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Metl	hod: EPA 50	030B/8260					
Acetone	15.5	ug/L	4.0	1		02/07/17 17:36	67-64-1	C9
Acrolein	ND	ug/L	8.0	1		02/07/17 17:36		M1
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 17:36		
Benzene	ND	ug/L	1.0	1		02/07/17 17:36		
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 17:36		
Bromoform	ND	ug/L	1.0	1		02/07/17 17:36		
Bromomethane	ND	ug/L	1.0	1		02/07/17 17:36		R1
2-Butanone (MEK)	2.3	ug/L	2.0	1		02/07/17 17:36		
Carbon disulfide	ND	ug/L ug/L	1.0	1		02/07/17 17:36		M1,R1
Carbon distillide Carbon tetrachloride	ND ND	•	1.0	1		02/07/17 17:36		IVI 1, IX I
	ND ND	ug/L		1		02/07/17 17:36		
Chlorobenzene		ug/L	1.0					D1
Chloroethane	ND	ug/L	1.0	1		02/07/17 17:36	10-00-3	R1
Chloroform	ND	ug/L	1.0	1		02/07/17 17:36	07.00.0	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, LLC.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFF-20170202	Lab ID: 204	9726003	Collected: 02/02/1	7 11:15	Received: 02/03/17 09:40 Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared Analyzed CAS N	o. Qua			
3260 MSV HALOETHERS	Analytical Met	hod: EPA 50	030B/8260						
Chloromethane	ND	ug/L	1.0	1	02/07/17 17:36 74-87-3	R1			
Dibromochloromethane	ND	ug/L	1.0	1	02/07/17 17:36 124-48-1				
Dibromomethane	ND	ug/L	1.0	1	02/07/17 17:36 74-95-3				
1,1-Dichloroethane	ND	ug/L	1.0	1	02/07/17 17:36 75-34-3				
1,2-Dichloroethane	ND	ug/L	1.0	1	02/07/17 17:36 107-06-2				
1,1-Dichloroethene	ND	ug/L	1.0	1	02/07/17 17:36 75-35-4				
cis-1,2-Dichloroethene	ND	ug/L	1.0	1	02/07/17 17:36 156-59-2				
rans-1,2-Dichloroethene	ND	ug/L	1.0	1	02/07/17 17:36 156-60-5				
1,2-Dichloropropane	ND	ug/L	1.0	1	02/07/17 17:36 78-87-5				
cis-1,3-Dichloropropene	ND	ug/L	1.0	1	02/07/17 17:36 10061-01	-5			
rans-1,3-Dichloropropene	ND	ug/L	1.0	1	02/07/17 17:36 10061-02	-6			
Enflurane	ND	ug/L	1.0	1	02/07/17 17:36 13838-16	-9			
Ethylbenzene	ND	ug/L	1.0	1	02/07/17 17:36 100-41-4				
Haloether 229	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 406	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 421	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 427	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 428	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 508	ND	ug/L	1.0	1	02/07/17 17:36				
Haloether 528	ND	ug/L	1.0	1	02/07/17 17:36				
Halomar	ND	ug/L	1.0	1	02/07/17 17:36				
2-Hexanone	ND	ug/L	2.0	1	02/07/17 17:36 591-78-6				
soflurane	ND	ug/L	1.0	1	02/07/17 17:36				
Methoxyflurane	ND	ug/L	1.0	1	02/07/17 17:36 76-38-0	M1			
Methylene Chloride	ND	ug/L	5.0	1	02/07/17 17:36 75-09-2				
1-Methyl-2-pentanone (MIBK)	ND	ug/L	2.0	1	02/07/17 17:36 108-10-1				
Styrene	ND	ug/L	1.0	1	02/07/17 17:36 100-42-5	M1			
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1	02/07/17 17:36 79-34-5				
Tetrachloroethene	ND	ug/L	1.0	1	02/07/17 17:36 127-18-4				
Toluene	ND	ug/L	1.0	1	02/07/17 17:36 108-88-3				
Total Haloether	ND	ug/L	1.0	1	02/07/17 17:36				
1,1,1-Trichloroethane	ND	ug/L	1.0	1	02/07/17 17:36 71-55-6				
,1,2-Trichloroethane	ND	ug/L	1.0	1	02/07/17 17:36 79-00-5				
Frichloroethene	ND	ug/L	1.0	1	02/07/17 17:36 79-01-6				
Trichlorofluoromethane	ND	ug/L	1.0	1	02/07/17 17:36 75-69-4				
,2,3-Trichloropropane	ND	ug/L	1.0	1	02/07/17 17:36 96-18-4				
,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1	02/07/17 17:36 76-13-1				
/inyl chloride	ND	ug/L	1.0	1	02/07/17 17:36 75-01-4	R1			
n&p-Xylene	ND	ug/L	2.0	1	02/07/17 17:36 179601-2				
o-Xylene	ND	ug/L	1.0	1	02/07/17 17:36 95-47-6	M1			
Surrogates	110	4g/ L	1.0	•	32,3777 17.30 33 47 0				
oluene-d8 (S)	98	%.	79-119	1	02/07/17 17:36 2037-26-	5			
-Bromofluorobenzene (S)	98	%.	68-124	1	02/07/17 17:36 460-00-4				
Dibromofluoromethane (S)	104	%.	72-126	1	02/07/17 17:36 1868-53-	7			



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFFDUP-20170202	Lab ID: 204	37 2000-	Collected: 02/02/1	1 11.13	Neceiveu.	02/03/17 09.40	09:40 Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua	
260 MSV HALOETHERS	Analytical Met	hod: EPA 5	030B/8260						
Acetone	15.7	ug/L	4.0	1		02/07/17 18:12	2 67-64-1	C9	
Acrolein	ND	ug/L	8.0	1		02/07/17 18:12	2 107-02-8		
Acrylonitrile	ND	ug/L	4.0	1		02/07/17 18:12	2 107-13-1		
Benzene	ND	ug/L	1.0	1		02/07/17 18:12	2 71-43-2		
Bromodichloromethane	ND	ug/L	1.0	1		02/07/17 18:12	2 75-27-4		
Bromoform	ND	ug/L	1.0	1		02/07/17 18:12	2 75-25-2		
Bromomethane	ND	ug/L	1.0	1		02/07/17 18:12	2 74-83-9		
2-Butanone (MEK)	2.8	ug/L	2.0	1		02/07/17 18:12	2 78-93-3		
Carbon disulfide	ND	ug/L	1.0	1		02/07/17 18:12	2 75-15-0		
Carbon tetrachloride	ND	ug/L	1.0	1		02/07/17 18:12	2 56-23-5		
Chlorobenzene	ND	ug/L	1.0	1		02/07/17 18:12	2 108-90-7		
Chloroethane	ND	ug/L	1.0	1		02/07/17 18:12	2 75-00-3		
Chloroform	ND	ug/L	1.0	1		02/07/17 18:12	2 67-66-3		
Chloromethane	ND	ug/L	1.0	1		02/07/17 18:12	2 74-87-3		
Dibromochloromethane	ND	ug/L	1.0	1		02/07/17 18:12	2 124-48-1		
Dibromomethane	ND	ug/L	1.0	1		02/07/17 18:12	2 74-95-3		
,1-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:12	2 75-34-3		
,2-Dichloroethane	ND	ug/L	1.0	1		02/07/17 18:12	2 107-06-2		
,1-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:12			
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:12			
rans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/07/17 18:12			
,2-Dichloropropane	ND	ug/L	1.0	1		02/07/17 18:12			
sis-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:12			
rans-1,3-Dichloropropene	ND	ug/L	1.0	1		02/07/17 18:12			
Enflurane	ND	ug/L	1.0	1		02/07/17 18:12			
Ethylbenzene	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 229	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 406	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 421	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 427	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 428	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 508	ND	ug/L	1.0	1		02/07/17 18:12			
Haloether 528	ND	ug/L	1.0	1		02/07/17 18:12			
Halomar	ND	ug/L	1.0	1		02/07/17 18:12			
2-Hexanone	ND	ug/L	2.0	1		02/07/17 18:12			
soflurane	ND	ug/L	1.0	1		02/07/17 18:12			
Methoxyflurane	ND	ug/L	1.0	1		02/07/17 18:12			
Methylene Chloride	ND	ug/L	5.0	1		02/07/17 18:12			
I-Methyl-2-pentanone (MIBK)	ND ND	ug/L ug/L	2.0	1		02/07/17 18:12			
Styrene	ND ND	ug/L ug/L	1.0	1		02/07/17 18:12			
1,1,2,2-Tetrachloroethane	ND ND	ug/L ug/L	1.0	1		02/07/17 18:12			
Tetrachloroethene	ND ND	ug/L ug/L	1.0	1		02/07/17 18:12			
Toluene	ND ND	-	1.0	1		02/07/17 18:12			
		ug/L				02/07/17 18:12			
Total Haloether	ND	ug/L	1.0	1					
,1,1-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:12			
,1,2-Trichloroethane	ND	ug/L	1.0	1		02/07/17 18:12			
richloroethene	ND	ug/L	1.0	1		02/07/17 18:12	2 79-01-6		



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Sample: EFFDUP-20170202	Lab ID: 2049	9726004	Collected: 02/02/1	7 11:15	Received: 02	2/03/17 09:40 I	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV HALOETHERS	Analytical Meth	nod: EPA 50	030B/8260					
Trichlorofluoromethane	ND	ug/L	1.0	1		02/07/17 18:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	1		02/07/17 18:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	1		02/07/17 18:12	? 76-13-1	
Vinyl chloride	ND	ug/L	1.0	1		02/07/17 18:12	2 75-01-4	
m&p-Xylene	ND	ug/L	2.0	1		02/07/17 18:12	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		02/07/17 18:12	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	79-119	1		02/07/17 18:12	2 2037-26-5	
4-Bromofluorobenzene (S)	97	%.	68-124	1		02/07/17 18:12	2 460-00-4	
Dibromofluoromethane (S)	103	%.	72-126	1		02/07/17 18:12	1868-53-7	



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

QC Batch: 73753 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV

Associated Lab Samples: 2049726001, 2049726002, 2049726003, 2049726004

METHOD BLANK: 309502 Matrix: Water
Associated Lab Samples: 2049726001, 2049726002, 2049726003, 2049726004

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/07/17 16:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/07/17 16:07	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/07/17 16:07	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	02/07/17 16:07	
1,1-Dichloroethane	ug/L	ND	1.0	02/07/17 16:07	
1,1-Dichloroethene	ug/L	ND	1.0	02/07/17 16:07	
1,2,3-Trichloropropane	ug/L	ND	1.0	02/07/17 16:07	
1,2-Dichloroethane	ug/L	ND	1.0	02/07/17 16:07	
1,2-Dichloropropane	ug/L	ND	1.0	02/07/17 16:07	
2-Butanone (MEK)	ug/L	ND	2.0	02/07/17 16:07	
2-Hexanone	ug/L	ND	2.0	02/07/17 16:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	2.0	02/07/17 16:07	
Acetone	ug/L	ND	4.0	02/07/17 16:07	
Acrolein	ug/L	ND	8.0	02/07/17 16:07	
Acrylonitrile	ug/L	ND	4.0	02/07/17 16:07	
Benzene	ug/L	ND	1.0	02/07/17 16:07	
Bromodichloromethane	ug/L	ND	1.0	02/07/17 16:07	
Bromoform	ug/L	ND	1.0	02/07/17 16:07	
Bromomethane	ug/L	ND	1.0	02/07/17 16:07	
Carbon disulfide	ug/L	ND	1.0	02/07/17 16:07	
Carbon tetrachloride	ug/L	ND	1.0	02/07/17 16:07	
Chlorobenzene	ug/L	ND	1.0	02/07/17 16:07	
Chloroethane	ug/L	ND	1.0	02/07/17 16:07	
Chloroform	ug/L	ND	1.0	02/07/17 16:07	
Chloromethane	ug/L	ND	1.0	02/07/17 16:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/07/17 16:07	
cis-1,3-Dichloropropene	ug/L	ND	1.0	02/07/17 16:07	
Dibromochloromethane	ug/L	ND	1.0	02/07/17 16:07	
Dibromomethane	ug/L	ND	1.0	02/07/17 16:07	
Enflurane	ug/L	ND	1.0	02/07/17 16:07	
Ethylbenzene	ug/L	ND	1.0	02/07/17 16:07	
Haloether 229	ug/L	ND	1.0	02/07/17 16:07	
Haloether 406	ug/L	ND	1.0	02/07/17 16:07	
Haloether 421	ug/L	ND	1.0	02/07/17 16:07	
Haloether 427	ug/L	ND	1.0	02/07/17 16:07	
Haloether 428	ug/L	ND	1.0	02/07/17 16:07	
Haloether 508	ug/L	ND	1.0	02/07/17 16:07	
Haloether 528	ug/L	ND	1.0	02/07/17 16:07	
Halomar	ug/L	ND	1.0	02/07/17 16:07	
Isoflurane	ug/L	ND	1.0	02/07/17 16:07	
m&p-Xylene	ug/L	ND	2.0	02/07/17 16:07	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

METHOD BLANK: 309502 Matrix: Water
Associated Lab Samples: 2049726001, 2049726002, 2049726003, 2049726004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methoxyflurane	ug/L	ND ND	1.0	02/07/17 16:07	
Methylene Chloride	ug/L	ND	5.0	02/07/17 16:07	
o-Xylene	ug/L	ND	1.0	02/07/17 16:07	
Styrene	ug/L	ND	1.0	02/07/17 16:07	
Tetrachloroethene	ug/L	ND	1.0	02/07/17 16:07	
Toluene	ug/L	ND	1.0	02/07/17 16:07	
Total Haloether	ug/L	ND	1.0	02/07/17 16:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/07/17 16:07	
trans-1,3-Dichloropropene	ug/L	ND	1.0	02/07/17 16:07	
Trichloroethene	ug/L	ND	1.0	02/07/17 16:07	
Trichlorofluoromethane	ug/L	ND	1.0	02/07/17 16:07	
Vinyl chloride	ug/L	ND	1.0	02/07/17 16:07	
4-Bromofluorobenzene (S)	%.	97	68-124	02/07/17 16:07	
Dibromofluoromethane (S)	%.	106	72-126	02/07/17 16:07	
Toluene-d8 (S)	%.	100	79-119	02/07/17 16:07	

LABORATORY CONTROL SAMPLE:	309503					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,1,1-Trichloroethane	ug/L		50.3	101	62-131	
1,1,2,2-Tetrachloroethane	ug/L	50	48.2	96	15-179	
1,1,2-Trichloroethane	ug/L	50	51.2	102	58-144	
1,1,2-Trichlorotrifluoroethane	ug/L	50	44.4	89	38-121	
1,1-Dichloroethane	ug/L	50	51.5	103	63-129	
1,1-Dichloroethene	ug/L	50	43.6	87	51-139	
1,2,3-Trichloropropane	ug/L	50	47.4	95	13-187	
1,2-Dichloroethane	ug/L	50	50.6	101	57-148	
1,2-Dichloropropane	ug/L	50	51.2	102	66-128	
2-Butanone (MEK)	ug/L	50	54.3	109	32-183	
2-Hexanone	ug/L	50	54.1	108	36-170	
4-Methyl-2-pentanone (MIBK)	ug/L	50	55.5	111	26-171	
Acetone	ug/L	50	59.3	119	22-165	
Acrolein	ug/L	100	78.6	79	10-131	
Acrylonitrile	ug/L	50	55.4	111	18-149	
Benzene	ug/L	50	49.9	100	62-131	
Bromodichloromethane	ug/L	50	52.0	104	69-132	
Bromoform	ug/L	50	47.0	94	35-166	
Bromomethane	ug/L	50	54.5	109	34-158	
Carbon disulfide	ug/L	50	50.3	101	31-128	
Carbon tetrachloride	ug/L	50	48.1	96	54-144	
Chlorobenzene	ug/L	50	49.6	99	70-127	
Chloroethane	ug/L	50	46.9	94	17-195	
Chloroform	ug/L	50	52.5	105	73-134	
Chloromethane	ug/L	50	37.7	75	17-153	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

LABORATORY CONTROL SAMPLE:	309503					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
sis-1,2-Dichloroethene	ug/L	50	48.6	97	68-129	
s-1,3-Dichloropropene	ug/L	50	51.8	104	72-138	
ibromochloromethane	ug/L	50	49.8	100	49-146	
bromomethane	ug/L	50	49.9	100	56-145	
nflurane	ug/L	50	51.7	103	56-135	
nylbenzene	ug/L	50	47.2	94	66-126	
loether 229	ug/L	50	33.8	68	62-123	
loether 406	ug/L	50	47.9	96	62-134	
aloether 421	ug/L	50	52.0	104	70-128	
loether 427	ug/L	50	47.3	95	69-153	
loether 428	ug/L	50	49.1	98	70-134	
loether 508	ug/L	50	50.9	102	52-139	
oether 528	ug/L	50	50.1	100	48-157	
lomar	ug/L	50	52.7	105	62-128	
flurane	ug/L	50	50.9	102	61-132	
o-Xylene	ug/L	100	95.2	95	65-129	
hoxyflurane	ug/L	50	52.7	105	72-124	
hylene Chloride	ug/L	50	54.0	108	46-168	
lene	ug/L	50	47.5	95	65-124	
ene	ug/L	50	50.0	100	72-133	
achloroethene	ug/L	50	48.5	97	46-157	
ene	ug/L	50	49.5	99	69-126	
l Haloether	ug/L		539			
s-1,2-Dichloroethene	ug/L	50	48.3	97	60-129	
ns-1,3-Dichloropropene	ug/L	50	51.7	103	59-149	
chloroethene	ug/L	50	47.5	95	67-132	
chlorofluoromethane	ug/L	50	48.5	97	39-171	
yl chloride	ug/L	50	35.0	70	27-149	
romofluorobenzene (S)	%.			98	68-124	
romofluoromethane (S)	%.			105	72-126	
uene-d8 (S)	%.			101	79-119	

MATRIX SPIKE & MATRIX SPIR	KE DUPLIC	CATE: 30950	4		309505							
			MS	MSD								
		2049726003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	62.8	52.7	126	105	54-137	17	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	54.9	47.8	110	96	15-187	14	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	59.8	51.1	120	102	59-148	16	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	58.6	49.1	117	98	40-117	18	20	
1,1-Dichloroethane	ug/L	ND	50	50	60.2	51.4	120	103	59-133	16	20	
1,1-Dichloroethene	ug/L	ND	50	50	48.5	40.7	97	81	44-146	17	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	54.8	47.0	110	94	14-199	15	20	
1,2-Dichloroethane	ug/L	ND	50	50	58.8	49.5	118	99	56-154	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	59.2	50.4	118	101	62-135	16	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Parameter Units Result Conc. Conc. Result	MATRIX SPIKE & MATRIX SP	INE DUPLI	CATE: 30950		MCD	309505							
Parameter Units			2040726002	MS Spiko	MSD Spike	MS	MCD	MS	Med	0/ Pag		May	
Butanone (MEK)	Parameter	Units		•							RPD		Qua
-Hexanone ug/L ND 50 50 57.3 50.6 115 101 25-189 13 20 MBK) whethyl-2-pentanone ug/L ND 50 50 60.0 53.4 120 107 23-184 12 20 workletch with the property of th	2-Butanone (MEK)	ug/L	2.3	50	50	63.4	54.7	122	105	20-205	15	20	
Methyl-2-pentanone ug/L ND 50 50 60.0 53.4 120 107 23-184 12 20 108 120 107 23-184 12 20 108 120 107 23-184 12 20 108 108 108 108 11-217 12 20 108 108 108 11-217 12 20 108 108 108 11-217 12 20 108 108 108 108 120 120 108 108 108 120 120 108 108 108 120 120 108 108 108 120 120 108 108 108 120 120 108 108 108 120 120 108 108 120 120 108 108 120 120 108 108 120 120 108 120 108 120 120 108 120 1	2-Hexanone		ND	50	50	57.3	50.6	115	101	25-189	13	20	
Name	4-Methyl-2-pentanone (MIBK)		ND		50		53.4			23-184		20	
Compositive Ug/L ND 50 50 58.9 51.2 118 102 20-164 14 20 14 20 14 20 15 15 15 15 15 15 15 1	Acetone	ug/L	15.5	50	50	89.5	79.2	148	128	11-217	12	20	
lenzene ug/L ND 50 50 58,9 50,6 118 101 52-141 15 20 tromodichloromethane ug/L ND 50 50 60.0 51.3 120 103 70-134 16 20 tromodichromethane ug/L ND 50 50 55.2 47.7 109 94 37-171 14 20 tromomethane ug/L ND 50 50 55.2 47.7 109 94 37-171 14 20 tromomethane ug/L ND 50 50 69.9 54.0 139 108 24-156 22 20 R1 12 arbon disulfide ug/L ND 50 50 69.9 54.0 139 108 24-156 22 20 R1 12 arbon disulfide ug/L ND 50 50 50 69.8 49.4 120 99 48-146 19 20 thioromethane ug/L ND 50 50 50 59.8 50.4 120 101 67-129 17 20 thioromethane ug/L ND 50 50 50 73.7 55.8 147 112 12-192 17 20 thioromethane ug/L ND 50 50 50 73.7 55.8 147 112 12-192 18 20 R1 hibroroform ug/L ND 50 50 50 70.2 55.8 147 112 12-192 18 20 R1 hibroromethane ug/L ND 50 50 70.2 55.8 147 112 12-192 18 20 R1 15-13-Dichloromethane ug/L ND 50 50 50 70.2 55.8 147 112 12-192 18 20 R1 15-13-Dichloromethane ug/L ND 50 50 50 70.2 55.8 147 112 12-192 12 20 12 12 12 12 12 12 12 12 12 12 12 12 12	Acrolein	ug/L	ND	100	100	2.6J	ND	3	2	10-142		20	M1
iximodichloromethane ug/L ND 50 50 60.0 51.3 120 103 70-134 16 20 toromormethane ug/L ND 50 50 55.2 47.7 109 94 37-171 14 20 toromormethane ug/L ND 50 50 55.2 47.7 109 94 37-171 14 20 toromormethane ug/L ND 50 50 50 69.9 54.0 139 108 28-130 26 20 R1 arbon ofisulfide ug/L ND 50 50 59.8 49.4 120 99.4 8-136 26 20 M1. arbon etrachloride ug/L ND 50 50 59.8 49.4 120 99.4 136 28-130 26 20 M1. arbon etrachloride ug/L ND 50 50 59.8 49.4 120 99.4 136 28-130 26 20 M1. arbon etrachloride ug/L ND 50 50 50 62.0 53.3 124 107 66-143 15 20 hibroromethane ug/L ND 50 50 62.0 53.3 124 107 66-143 15 20 hibroromethane ug/L ND 50 50 62.0 53.3 124 107 66-143 15 20 hibroromethane ug/L ND 50 50 50 62.0 53.3 124 107 66-143 15 20 hibroromethane ug/L ND 50 50 50 58.0 48.9 116 98 56-151 17 20 hibroromethane ug/L ND 50 50 50 58.0 48.9 116 98 56-151 17 20 hibroromethane ug/L ND 50 50 50 58.0 48.9 116 99 50-150 16 20 hibroromethane ug/L ND 50 50 58.0 48.8 116 10 87 70-139 15 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 hibroromethane ug/L ND 50 50 58.8 49.8 116 10 87 70-139 15 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 hibroromethane ug/L ND 50 50 58.8 49.8 116 10 66-312 16 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 10 87 70-139 15 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 10 89 50-150 16 20 hibroromethane ug/L ND 50 50 58.8 50.0 116 10 89 50-150 16 20 hibroromethane ug/L ND 50 50 50 61.5 52.3 123 105 63-124 16 20 hibroromethane ug/L ND 50 50 50 61.5 52.3 123 105 63-124 16 20 hibroromethane ug/L ND 50 50 50 60.0 50.0 120 10 68-128 18 20 hibroromethane ug/L ND 50 50 50 60.0 50.0 120 10 68-128 18 20 hibroromethane ug/L ND 50 50 59.8 51.4 119 103 78-120 14 20 hibroromethane ug/L ND 50 50 59.8 51.4 119 103 78-120 14 20 hibroromethane ug/L ND 50 50 60.0 59.8 51.8 119 104 74-120 14 20 hibroromethane ug/L ND 50 50 60.0 59.8 51.8 119 100 56-141 10 20 hibroromethane ug/L ND 50 50 60.0 60.0 120	Acrylonitrile	ug/L	ND	50	50	58.9	51.2	118	102	20-164	14	20	
Non-commentane Ug/L ND S0 S50 S5.2 47.7 109 94 37.171 14 20 10 10 10 10 10 10 10	Benzene	ug/L	ND	50	50	58.9	50.6	118	101	52-141	15	20	
Non-commentane Ug/L ND S0 S50 S5.2 47.7 109 94 37.171 14 20 10 10 10 10 10 10 10	Bromodichloromethane	_	ND	50	50	60.0	51.3	120	103	70-134	16	20	
izomomethane ug/L ND 50 50 74.7 60.1 149 120 34.155 22 20 R1 carbon disulfide ug/L ND 50 50 69.9 54.0 139 108 28.130 26 20 M1, carbon disulfide ug/L ND 50 50 69.8 49.4 120 99 48.146 19 20 chlorobenzene ug/L ND 50 50 59.8 49.4 120 99 48.146 19 20 chlorobenzene ug/L ND 50 50 59.8 49.4 120 99 48.146 19 20 chloroberzene ug/L ND 50 50 50 59.8 140 110 101 67.129 17 20 chloroberzene ug/L ND 50 50 50 59.8 140 110 101 67.129 17 20 chloroberzene ug/L ND 50 50 50 50.4 120 101 67.129 17 20 chloroberzene ug/L ND 50 50 50 62.0 53.3 124 107 66.143 15 20 chloroberzene ug/L ND 50 50 50 62.0 53.3 124 107 66.143 15 20 chloroberzene ug/L ND 50 50 50 50.4 8.9 116 99 56.141 7 20 chloroberzene ug/L ND 50 50 50 50.6 43.6 101 87 70.139 15 20 chloroberzene ug/L ND 50 50 50.6 43.6 101 87 70.139 15 20 chloromomethane ug/L ND 50 50 58.0 49.8 116 99 50.150 16 20 chloromomethane ug/L ND 50 50 58.0 49.8 116 99 50.150 16 20 chloromomethane ug/L ND 50 50 58.0 49.8 116 100 68.153 15 20 chloromomethane ug/L ND 50 50 50 61.5 52.3 123 105 63.126 16 20 chloroberzene ug/L ND 50 50 60.0 50.0 120 100 68.128 18 20 taloether 229 ug/L ND 50 50 60.0 50.0 120 100 68.128 18 20 taloether 427 ug/L ND 50 50 50 50.0 50.0 120 100 68.128 18 20 taloether 427 ug/L ND 50 50 50 59.8 51.4 119 103 74.120 14 20 taloether 427 ug/L ND 50 50 50 50 59.8 51.4 119 103 74.120 14 20 taloether 508 ug/L ND 50 50 50 60.0 50.0 120 100 68.128 18 20 taloether 508 ug/L ND 50 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 121 103 74.120 17 20 taloether 508 ug/L ND 50 50 60.7 51.3 120 100 58.134 17 20 taloether 608 ug/L ND 50 50 60.7 51.3 120 100 58.134 1	Bromoform	-	ND	50	50	55.2	47.7	109	94	37-171	14	20	
Carbon disulfide ug/L ND 50 50 69.9 54.0 139 108 28-130 26 20 M1, 20 carbon tetrachloride ug/L ND 50 50 59.8 59.4 49.4 120 99 48-16 192 20 carbon tetrachloride ug/L ND 50 50 59.8 59.8 59.4 120 101 67-129 120 281 282 282 R1 70 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-2 70-3 70-	Bromomethane	_											R1
Carbon tetrachloride ug/L ND 50 50 50, 59.8 49.4 120 99 48-146 19 20 chlorobenzene ug/L ND 50 50 59.8 50.4 120 101 67-129 17 20 chlorobenzene ug/L ND 50 50 59.8 50.4 120 101 67-129 17 20 chlorobenzene ug/L ND 50 50 50 59.8 50.4 120 101 67-129 17 20 chlorobenzene ug/L ND 50 50 50 53.3 124 107 66-143 15 20 R1 chlorobenthane ug/L ND 50 50 50 58.0 48.9 116 98 56-141 17 20 chlorobenzene ug/L ND 50 50 50 58.0 48.9 116 98 56-141 17 20 chlorobenzene ug/L ND 50 50 50.6 43.6 101 87 70-139 15 20 chloromochloromethane ug/L ND 50 50 58.0 48.9 116 99 50-150 16 20 chloromochloromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 chloromochloromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 chloromochloromethane ug/L ND 50 50 58.0 49.8 116 100 58-153 15 20 chloromochloromethane ug/L ND 50 50 58.0 49.8 116 100 58-153 15 20 chloromochloromethane ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 chloromochloromethane ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 chloromochloromethane ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 chloromochloromethane ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 laloether 406 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 laloether 406 ug/L ND 50 50 50 59.8 51.4 119 103 78-120 14 20 laloether 427 ug/L ND 50 50 59.8 51.4 119 103 78-120 14 20 laloether 428 ug/L ND 50 50 59.8 51.4 119 103 78-120 14 20 laloether 428 ug/L ND 50 50 59.8 51.4 119 103 78-120 14 20 laloether 508 ug/L ND 50 50 50 60.0 50.0 120 100 68-124 17 20 laloether 508 ug/L ND 50 50 50 60.7 51.3 121 103 74-125 14 20 laloether 508 ug/L ND 50 50 50 60.7 51.3 121 103 74-125 14 20 laloether 508 ug/L ND 50 50 50 60.7 51.3 121 103 75-142 17 20 laloether 508 ug/L ND 50 50 60.0 50.0 120 100 67-130 16 20 M1 lethylene ug/L ND 50 50 60.0 50.0 120 100 58-130 10 20 M1 lethylene ug/L ND 50 50 60.0 50.0 120 100 58-130 10 20 M1 lethylene ug/L ND 50 50 60.0 50.0 50.0 120 100 58-130 10 20 M1 lethylene ug/L ND 50 50 50 60.0 50.0 120 100 58-130 10 20 M1 lethylene ug/L ND 50 50 50 60.0 50.0 120 100 58-130 10 20 M1 lethylene ug/L ND 50 50 50 60.0 50.0 120	Carbon disulfide												
Chlorobenzene ug/L ND 50 50 59.8 50.4 120 101 67-129 17 20 chlorobenane ug/L ND 50 50 73.7 55.8 147 112 12-192 28 20 R1 hibrorethane ug/L ND 50 50 62.0 53.3 124 107 66-143 15 20 chloromethane ug/L ND 50 50 70.2 55.8 147 112 12-192 28 20 R1 10 chloroform ug/L ND 50 50 60.2 53.8 124 107 66-143 15 20 chloromethane ug/L ND 50 50 50 50.8 10 116 98 56-141 17 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50 50.6 43.6 101 87 70-139 15 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50.6 43.6 101 87 70-139 15 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50.6 43.6 101 89 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50.6 43.6 101 89 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50.6 43.6 101 89 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50 58.8 50.0 116 99 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50 58.8 50.0 116 99 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50 50 58.8 50.0 116 99 50-150 16 20 the sis-1,3-Dichloroptene ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50	Carbon tetrachloride	_											-,•
Chloroethane Chloroethane Chloroform Chlorof		_											
Chloroform ug/L ND 50 50 62.0 53.3 124 107 66-143 15 20 R1 100 more thane ug/L ND 50 50 70.2 55.8 140 112 14-155 23 20 R1 100 more thane ug/L ND 50 50 70.2 55.8 140 112 14-155 23 20 R1 100 151.2 12-15-15 12 100 R1 112 14-155 23 20 R1 115.12-15-16-16-16-16-16-16-16-16-16-16-16-16-16-		_								-			R1
Schloromethane Ug/L ND 50 50 70.2 55.8 140 112 14-155 23 20 R1		_											
is-1,2-Dichloroethene ug/L ND 50 50 58.0 48.9 116 98 56-141 17 20 is-1,3-Dichloropropene ug/L ND 50 50 50.6 43.6 101 87 70-139 15 20 ibloromothane ug/L ND 50 50 50.6 43.6 101 87 70-139 15 20 ibloromothane ug/L ND 50 50 58.0 49.8 116 100 58-153 15 20 ibloromothane ug/L ND 50 50 58.0 49.8 116 100 58-153 15 20 ibloromothane ug/L ND 50 50 50 58.0 49.8 116 100 58-153 15 20 ibloromothane ug/L ND 50 50 50 58.0 49.8 116 100 58-153 15 20 ibloromothane ug/L ND 50 50 50 58.0 49.8 116 100 58-153 15 20 ibloromothane ug/L ND 50 50 50 50.0 38.5 123 123 105 63-126 16 20 ibloromothane ug/L ND 50 50 50 50.0 38.5 123 123 105 63-126 16 20 ibloromothane ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 ibloether 229 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 ibloether 406 ug/L ND 50 50 50 50.0 50.0 120 100 68-128 18 20 ibloether 421 ug/L ND 50 50 50 59.6 51.8 119 104 74-120 14 20 ibloether 427 ug/L ND 50 50 50 59.6 51.8 119 104 74-120 14 20 ibloether 428 ug/L ND 50 50 50 59.8 51.4 119 103 78-120 14 20 ibloether 508 ug/L ND 50 50 50 59.8 51.7 120 103 74-125 14 20 ibloether 508 ug/L ND 50 50 60 64.4 52.5 129 105 28-156 20 20 ibloether 528 ug/L ND 50 50 60 64.4 52.6 123 105 67-123 16 20 soflurane ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 iblomar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 ibloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 ibloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 ibloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 ibloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 ibloether 508 ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50		-										-	R1
is-1,3-Dichloropropene ug/L ND 50 50 50.6 43.6 101 87 70-139 15 20 bibromochloromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 bibromochloromethane ug/L ND 50 50 58.8 50.0 116 99 50-150 16 20 bibromomethane ug/L ND 50 50 58.8 50.0 116 10 58-153 15 20 bibromomethane ug/L ND 50 50 50 58.8 100 116 100 58-153 15 20 bibromomethane ug/L ND 50 50 61.5 52.3 123 105 63-126 16 20 bibromomethane ug/L ND 50 50 50 61.5 52.3 123 105 63-126 16 20 bibromomethane ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 bibromomethane ug/L ND 50 50 50.0 38.5 100 77 56-127 26 20 laloether 229 ug/L ND 50 50 50.0 38.5 100 77 56-127 26 20 laloether 406 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 laloether 421 ug/L ND 50 50 50 50.0 59.6 51.8 119 104 74-120 14 20 laloether 427 ug/L ND 50 50 50 59.6 51.8 119 104 74-120 14 20 laloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 laloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 laloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 laloether 528 ug/L ND 50 50 64.4 52.6 123 105 67-123 16 20 ablatomar ug/L ND 50 50 60.7 51.3 121 103 45-142 17 20 laloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 laloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 laloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 laloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 laloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 laloether 508 ug/L ND 50 50 60.7 51.3 121 103 45-166 19 20 M1 Methoxyflurane ug/L ND 50 50 60.6 5.9 13 12 120 102 75-119 16 20 M1 Methoxyflurane ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 laloether ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 laloether ug/L ND 50 50 50 60.2 50.8 120 100 57-132 18 20 M1 etrachloroethene ug/L ND 50 50 50 50 60.2 50.8 120 100 57-132 18 20 M1 etrachloroethene ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50											_		17.1
ND S0 S0 S0 S0 S0 S0 S0 S		_											
bitromomethane ug/L ND 50 50 58.0 49.8 116 100 58-153 15 20 influrane ug/L ND 50 50 61.5 52.3 123 105 63-126 16 20 calloether 229 ug/L ND 50 50 41.2 35.2 82 70 57-135 16 20 calloether 229 ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 calloether 406 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 calloether 421 ug/L ND 50 50 50 50.0 50.0 120 100 68-128 18 20 calloether 421 ug/L ND 50 50 50 59.6 51.8 119 104 74-120 14 20 calloether 422 ug/L ND 50 50 50 59.8 51.4 119 103 78-120 14 20 calloether 428 ug/L ND 50 50 50 59.8 51.7 120 103 74-125 14 20 calloether 508 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 calloether 528 ug/L ND 50 50 50 64.4 52.5 129 105 28-156 20 20 calloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.6 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.6 50 60.7 51.3 121 103 45-140 17 20 calloether 528 ug/L ND 50 50 60.6 51.6 125 103 45-166 19 20 calloether 528 ug/L ND 50 50 60.6 51.6 125 103 45-166 19 20 calloether 528 ug/L ND 50 50 60.6 51.6 125 103 45-166 19 20 calloether 528 ug/L ND 50 50 60.6 51.6 125 103 45-166 19 20 calloether 528 ug/L ND 50 50 60.2 50.8 120 102 75-119 16 20 M1 dethoxyflurane ug/L ND 50 50 60.6 51.6 125 103 45-166 19 20 calloether ug/L ND 50 50 50 60.2 50.8 120 102 75-133 10 20 M1 dethoxyflurane ug/L ND 50 50 50 60.2 50.8 120 102 75-133 10 20 M1 calloether ug/L ND 50 50 50 60.2 50.8 120 100 57-132 18 20 calloether ug/L ND 50 50 50 60.2 50.8 120 100 57-132 18 20 calloether ug/L ND 50 50 50 60.2 50.8 120 100 57-132 18 20 calloether ug/L ND 50 50 50 50 50 40.9 115 100 58-140 14 20 calloether ug/L ND 50 50 50 50 50 50 40.9 115 100 58-140 14 20 calloether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50		•											
influrane ug/L ND 50 50 61.5 52.3 123 105 63-126 16 20 tithylbenzene ug/L ND 50 50 41.2 35.2 82 70 57-135 16 20 tithylbenzene ug/L ND 50 50 50 41.2 35.2 82 70 57-135 16 20 taloether 229 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 taloether 406 ug/L ND 50 50 50 60.0 50.0 120 100 68-128 18 20 taloether 421 ug/L ND 50 50 50 65.6 51.8 119 104 74-120 14 20 taloether 427 ug/L ND 50 50 59.6 51.8 119 104 74-120 14 20 taloether 428 ug/L ND 50 50 59.8 51.7 120 103 78-120 14 20 taloether 428 ug/L ND 50 50 59.8 51.7 120 103 78-125 14 20 taloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 taloether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 taloether 528 ug/L ND 50 50 66.4 52.6 123 105 67-123 16 20 taloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 taloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 taloether 528 ug/L ND 50 50 50 62.6 51.6 125 103 45-166 19 20 taloether 528 ug/L ND 50 50 50 62.6 51.6 125 103 45-166 19 20 taloether 528 ug/L ND 50 50 50 60.2 50.8 120 102 75-119 16 20 M1 taloether ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 taloether ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 taloether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50		_											
titylbenzene ug/L ND 50 50 41.2 35.2 82 70 57-135 16 20 alaloether 229 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 alaloether 249 ug/L ND 50 50 50 50.0 38.5 100 77 56-127 26 20 alaloether 406 ug/L ND 50 50 50 60.0 50.0 120 100 68-128 18 20 alaloether 421 ug/L ND 50 50 59.6 51.8 119 104 74-120 14 20 alaloether 427 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 alaloether 428 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 alaloether 508 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 alaloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 alaloether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 alaloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 alaloether 528 ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50													
Haloether 229 ug/L ND 50 50 50.0 38.5 100 77 56-127 26 20 daloether 406 ug/L ND 50 50 50.0 50.0 120 100 68-128 18 20 daloether 421 ug/L ND 50 50 50.0 50.0 120 100 68-128 18 20 daloether 421 ug/L ND 50 50 50.0 59.6 51.8 119 104 74-120 14 20 daloether 427 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 daloether 428 ug/L ND 50 50 50 59.8 51.7 120 103 74-125 14 20 daloether 508 ug/L ND 50 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 64.4 52.6 123 105 67-123 16 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 60.7 51.0 120 daloethe		_									_		
Haloether 406 ug/L ND 50 50 60.0 50.0 120 100 68-128 18 20 daloether 421 ug/L ND 50 50 50 59.6 51.8 119 104 74-120 14 20 daloether 427 ug/L ND 50 50 59.6 51.8 119 104 74-120 14 20 daloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 daloether 508 ug/L ND 50 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 60.4 52.6 123 105 67-123 16 20 soffurane ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethylarene ug/L ND 50 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethylarene ug/L ND 50 50 60.6 5.9 13 12 57-133 10 20 M1 dethylarene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloether ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloether ug/L ND 50 50 50 50 50 59.9 49.9 120 100 57-132 18 20 daloether ug/L ND 50 50 50 50 50 50.9 49.9 120 100 57-132 18 20 daloether ug/L ND 50 50 50 50 50 50.9 49.9 115 100 58-140 14 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 50 60.9 58.0 140 116 24-175 19 20 daloether ug/L ND 50 50 50 15.8 12.7 32 25 21-150 22 20 R1	•	_									_		
Haloether 421 ug/L ND 50 50 59.6 51.8 119 104 74-120 14 20 daloether 427 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 daloether 428 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 daloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 daloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 daloemar ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 daloemar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloemar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloemar ug/L ND 50 50 50 60.7 51.3 121 103 45-140 17 20 daloemar ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethoxyflurane ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 daloemar ug/L ND 50 50 66.6 5.9 13 12 57-133 10 20 M1 dethylene Chloride ug/L ND 50 50 60.6 50 80.0 ND ND 0 0 58-144 20 M1 detrachloroethene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloemar ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloemar ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 daloemar ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50		_											
Haloether 427 ug/L ND 50 50 59.3 51.4 119 103 78-120 14 20 daloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 daloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 daloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 daloether 528 ug/L ND 50 50 48.0 40.4 96 81 45-142 17 20 daloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 software ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 daloether 528 ug/L ND 50 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethoxyflurane ug/L ND 50 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethoxyflurane ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 daloether 528 ug/L ND 50 50 60.2 50.8 120 102 75-133 10 20 M1 dethylene Chloride ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloether 528 ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 daloether 528 ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 daloether ug/L ND 50 50 50 50 60.2 50.8 120 102 48-143 17 20 daloether ug/L ND 50 50 50 50 50 60.2 50.8 120 102 48-143 17 20 daloether ug/L ND 50 50 50 50 50 60.2 50.8 120 102 57-132 18 20 daloether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50		_											
Haloether 428 ug/L ND 50 50 59.8 51.7 120 103 74-125 14 20 dialoether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 dialoether 528 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 dialoether 528 ug/L ND 50 50 60.4 4.0 4 96 81 45-142 17 20 dialomar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 software ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 mag-raylene ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 M1 dethoxyflurane ug/L ND 50 50 50 62.6 51.6 125 103 45-166 19 20 m1 dethylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m1 dethylene Chloride ug/L ND 50 50 60.6 5.9 13 12 57-133 10 20 M1 detrachloroethene ug/L ND 50 50 60.2 50.8 120 102 75-119 16 20 M1 detrachloroethene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 dialoether ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 dialoether ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 dialoether ug/L ND 50 50 50 60.2 50.8 120 102 48-143 17 20 dialoether ug/L ND 50 50 50 60.2 50.8 120 102 57-132 18 20 dialoether ug/L ND 50 50 50 50 50 60.2 50.8 120 100 57-132 18 20 dialoether ug/L ND 50 50 50 50 50 60.9 49.9 120 100 57-132 18 20 dialoether ug/L ND 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 60.9 50.0 43.7 104 87 59-154 17 20 dialoether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50													
Haloether 508 ug/L ND 50 50 64.4 52.5 129 105 28-156 20 20 Alaloether 528 ug/L ND 50 50 48.0 40.4 96 81 45-142 17 20 Alaloether 528 ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 Alalomar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 Alalomar ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 Alalomar ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 M1 Alaloether 528 ug/L ND 50 50 50 59.9 51.2 120 102 75-119 16 20 M1 Alaloether Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 Alaloether 528 ug/L ND 50 50 60.7 50.8 120 102 75-113 10 20 M1 Alaloether ug/L ND 50 50 60.2 50.8 120 102 Alaloether 528 ug/L ND 50 50 60.2 50.8 120 102 Alaloether 528 ug/L ND 50 50 50 645 544 17 20 Alaloether ug/L ND 50 50 50 59.9 49.9 120 100 57-132 18 20 Alaloether ug/L ND 50 50 50 50 50 43.7 104 87 59-154 17 20 Alaloether ug/L ND 50 50 50 50 69.9 58.0 140 116 24-175 19 20 Alaloether ug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 Alaloether ug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 Alaloether ug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 Alaloether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50													
Haloether 528 ug/L ND 50 50 48.0 40.4 96 81 45-142 17 20 dalomar ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 soflurane ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 maxp-Xylene ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 M1 dethoxyflurane ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 M1 dethoxyflurane ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m1 dethylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m1 detrylene ug/L ND 50 50 60.2 50.8 120 102 75-113 10 20 M1 detrylene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 m1 detrylene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 m1 detrylene ug/L ND 50 50 50 38.3 32.7 77 65 59-136 16 20 m1 detrylene ug/L ND 50 50 50 59.9 49.9 120 100 57-132 18 20 m1 detrylene ug/L ND 50 50 50 50 59.9 49.9 120 100 57-132 18 20 m1 detrylene ug/L ND 50 50 50 50 50 43.7 104 87 59-154 17 20 detrylene ug/L ND 50 50 50 50 50 50 49.9 115 100 58-140 14 20 m1 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 detrylene ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50	Haloether 428					59.8				74-125	14		
Halomar ug/L ND 50 50 61.4 52.6 123 105 67-123 16 20 soflurane ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 m&p-Xylene ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 M1 Methoxyflurane ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 M1 Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 M1 Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 M1	Haloether 508	ug/L	ND	50	50	64.4	52.5	129	105	28-156	20	20	
soflurane ug/L ND 50 50 60.7 51.3 121 103 45-140 17 20 n&p-Xylene ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 M1 Methoxyflurane ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 M1 Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m2 Nylene ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m2 Nylene ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 m2 Nylene ug/L ND 50 50 60.6 5.9 13 12 57-133 10 20 M1 Nylene Chloride ug/L ND 50 50 ND ND ND 0 0 58-144 20 M1 Nylene Chloride ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 Nylene Ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 Nylene Chloride ug/L ND 50 50 50 38.3 32.7 77 65 59-136 16 20 Nylene Chloride ug/L ND 50 50 50 59.9 49.9 120 100 57-132 18 20 Nylene Chloride ug/L ND 50 50 50 52.0 43.7 104 87 59-154 17 20 Nylene Chloride ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 Nylene Chloride ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 Nylene Chloride ug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 Nylene Chloride ug/L ND 50 50 50 50 50 58.0 140 116 24-175 19 20 Nylene Chloride ug/L ND 50 50 50 50 51.8 12.7 32 25 21-150 22 20 R1	Haloether 528	ug/L	ND	50	50	48.0	40.4	96	81	45-142	17	20	
n&p-Xylene ug/L ND 100 100 3.6 3.1 4 3 56-136 16 20 MI Methoxyflurane ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 MI Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 I-Xylene ug/L ND 50 50 66.6 5.9 13 12 57-133 10 20 MI Styrene ug/L ND 50 50 ND ND 0 0 58-144 20 MI Styrene ug/L ND 50 50 ND ND 0 0 58-144 20 MI Styrene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 Stolulene ug/L<	Halomar		ND	50	50	61.4	52.6	123	105	67-123	16	20	
Methoxyflurane ug/L ND 50 50 59.9 51.2 120 102 75-119 16 20 M1 Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 I-Xylene ug/L ND 50 50 6.6 5.9 13 12 57-133 10 20 M1 Styrene ug/L ND 50 50 ND ND 0 0 58-144 20 M1 Styrene ug/L ND 50 50 ND ND 0 0 58-144 20 M1 Styrene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 M1 Styrene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 M1 M1 M1	soflurane	ug/L	ND	50	50	60.7	51.3	121	103	45-140	17	20	
Methylene Chloride ug/L ND 50 50 62.6 51.6 125 103 45-166 19 20 104 105 105 105 105 105 105 105 105 105 105	m&p-Xylene	ug/L	ND	100	100	3.6	3.1	4	3	56-136	16	20	M1
-Xylene ug/L ND 50 50 6.6 5.9 13 12 57-133 10 20 M1 styrene ug/L ND 50 50 ND ND ND 0 0 58-144 20 M1 etrachloroethene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 foluene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 fotal Haloether ug/L ND 645 544 17 20 fotal Haloether ug/L ND 50 50 50 59.9 49.9 120 100 57-132 18 20 fotal Haloether ug/L ND 50 50 50 50 50 50 50 50 50 50 50 50 50	Methoxyflurane	ug/L	ND	50	50	59.9	51.2	120	102	75-119	16	20	M1
ND 50 50 6.6 5.9 13 12 57-133 10 20 M1 styrene ug/L ND 50 50 ND ND ND 0 0 58-144 20 M1 retrachloroethene ug/L ND 50 50 ND ND ND 0 0 58-144 20 M1 retrachloroethene ug/L ND 50 50 50 81.20 102 48-143 17 20 roluene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 rotal Haloether ug/L ND 645 544 17 rans-1,2-Dichloroethene ug/L ND 50 50 59.9 49.9 120 100 57-132 18 20 rans-1,3-Dichloropropene ug/L ND 50 50 50 52.0 43.7 104 87 59-154 17 20 rotal haloether ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 rotal haloether ug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 rotal haloether ug/L ND 50 50 50 15.8 12.7 32 25 21-150 22 20 R1	Methylene Chloride	ug/L	ND	50	50	62.6	51.6	125	103	45-166	19	20	
Styrene ug/L ND 50 50 ND ND 0 0 58-144 20 M1 etrachloroethene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 oluene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 oluene olug/L ND 50 50 50 44.5 544 17 20 oluene olug/L ND 50 50 50 59.9 49.9 120 100 57-132 18 20 oluene olug/L ND 50 50 50 52.0 43.7 104 87 59-154 17 20 oluene olug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 oluene olug/L ND 50 50 50 69.9 58.0 140 116 24-175 19 20 oluene olug/L ND 50 50 50 15.8 12.7 32 25 21-150 22 20 R1	o-Xylene	ug/L	ND	50	50	6.6	5.9	13	12	57-133	10	20	M1
etrachloroethene ug/L ND 50 50 60.2 50.8 120 102 48-143 17 20 foluene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 foluene ug/L ND 50 50 50 38.3 32.7 77 65 59-136 16 20 foluene ug/L ND 645 544 17 20 foluene ug/L ND 50 50 59.9 49.9 120 100 57-132 18 20 foluene ug/L ND 50 50 52.0 43.7 104 87 59-154 17 20 foluene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 foluene ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 foluene ug/L ND 50 50 50 15.8 12.7 32 25 21-150 22 20 R1	Styrene		ND	50	50	ND	ND	0	0	58-144		20	M1
foluene ug/L ND 50 50 38.3 32.7 77 65 59-136 16 20 fotal Haloether ug/L ND 645 544 17 17 rans-1,2-Dichloroethene ug/L ND 50 59.9 49.9 120 100 57-132 18 20 rans-1,3-Dichloropropene ug/L ND 50 50 52.0 43.7 104 87 59-154 17 20 frichloroethene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 frichlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 finyl chloride ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1	Tetrachloroethene										17		
Total Haloether ug/L ND 645 544 17 rans-1,2-Dichloroethene ug/L ND 50 59.9 49.9 120 100 57-132 18 20 rans-1,3-Dichloropropene ug/L ND 50 50 52.0 43.7 104 87 59-154 17 20 richloroethene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 richlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 rinyl chloride ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1	Toluene												
rans-1,2-Dichloroethene ug/L ND 50 50 59.9 49.9 120 100 57-132 18 20 rans-1,3-Dichloropropene ug/L ND 50 50 52.0 43.7 104 87 59-154 17 20 richloroethene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 richlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 richlorofluoromethane ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1		_										_3	
rans-1,3-Dichloropropene ug/L ND 50 50 52.0 43.7 104 87 59-154 17 20 frichloroethene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 frichlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 frichloroide ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1				50	50			120	100	57-132		20	
Trichloroethene ug/L ND 50 50 57.6 49.9 115 100 58-140 14 20 Trichlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 Vinyl chloride ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1	•												
Trichlorofluoromethane ug/L ND 50 50 69.9 58.0 140 116 24-175 19 20 Vinyl chloride ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1													
/inyl chloride ug/L ND 50 50 15.8 12.7 32 25 21-150 22 20 R1		_											
		_											D4
-BUMUMUMUMUMUMUMUMUM 131 %-	Vinyi chloride 4-Bromofluorobenzene (S)	ug/∟ %.	ND	50	50	15.8	12.7	32 99	100	68-124	22	20	ΚI

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

(504)469-0333



QUALITY CONTROL DATA

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 30950	4	·	309505						
			MS	MSD					o. 5		
		2049726003	Spike	Spike	MS	MSD	MS	MSD	% Rec	Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD RPD	Qual
Dibromofluoromethane (S)	%.						108	107	72-126		
Toluene-d8 (S)	%.						101	101	79-119		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

Date: 02/16/2017 04:26 PM

C9 Common Laboratory Contaminant.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FIBERS PUBLIC SUPPLY WELLS

Pace Project No.: 2049726

Date: 02/16/2017 04:26 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2049726001	TB-20170202	EPA 5030B/8260	73753		
2049726002	INF-20170202	EPA 5030B/8260	73753		
2049726003	EFF-20170202	EPA 5030B/8260	73753		
2049726004	EFFDUP-20170202	EPA 5030B/8260	73753		

MO#: 2049726

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SAMPLE CONDITIONS Comments ŏ Regulatory Agenc State / Location Residual Chlorine (Y/N) TIME EPA 300.0 Chloride DATE 35K 175 Methane PA 6010 Total Metals (Fe, Mn) EPA 6010 Dissolved Metals (Fe, Mn justin.stock@pacelabs.com ACCEPTED BY / AFFILIATION SM 2320B Alkalinity PA 8260B Haloethers XX N/A Analyses Test Accounts Payable lons/iteM Preservatives N^SS^SO³ HOBN Pace Quote: Pace Project Manager: 50 cm cm IOI-Invoice Information: Company Name: e ONH Pace Profile # ⁵os²H Attention: 02/01/10/1330 2-3-1- CAYO TIME Unpreserved (7)(7) 3 # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION DATE Capilli Can 201 6 cas TIME 202 N 115 2111 Kl 20/20 2 per 1/3 1185 Still Walso END 1602A Fibers Public Supply Wells DATE COLLECTED Arcade cassandra.mccloud@arcadis-us.com RELINQUISHED BY / AFFILIATION CO001911.0003 CO001911.0003 1602A TIME Cassandra McCloud START DATE Report To: David Howard André Colom 3 くなる <u>3</u> 3 O O (G=GRA8 C=COMP) **34YT 3J9MA**2 Purchase Order #: Ϋ́ ¥ MATRIX CODE (see valid codes to left) Project Name: Copy To: roject #: IS A M M M M MATRIX
Drinkling Water
Waste Water
Waste Waste Product
SouliSolid
Oil
Wipe
Air
Other B- 2017 0202 david.howard@arcadis-us.com ARCADIS U.S., Inc. 410 North 44th St., Suite 1000 NF - 201/2020 ADDITIONAL COMMENTS One Character per box. (A-2, 0-9 /, -) Sample Ids must be unique EPFDUP -201702-02 EFFIRS 2017 02.02 FFTWY20116207 FFF- 2000203 SAMPLE ID 602.797.4518 Required Client Information Requested Due Date Phoenix, AZ 8 Email To: d ompany: # WELL ဖ 8 6 10 Ξ 12

Page 20 of 21

(N/A) SaliqmeS

(N/Y)

Cooler pelice Custody (N/λ)

Received on

TEMP in C

5

DATE Signed:

<u>(ूड</u>)

PRINT Name of SAMPLER: SIGNATURE of SAMPLER:

WO#: 2049726

Project Straws IN Total Project Project Project Straws IN Total Project Proj	A COUNTY	Sampl	le Conditio	n Upon Recei	CLIENT: 20-CHEV-ARC	re: 02/1//
Custody Seals in Cooler/Box Present: [see COC] Therm Fisher IR 5	/Pace Analytical	•		Project .	<u></u>	·
Therm Fisher IR 5 Jacet: Therm Fisher IR 6 Therm Fisher IR 7 Cooler Temperature: [see COC] Temp should be above freezing to 6°C Temp should be	Courier: Pace Courier	☐ Hired Courier	Fed X □ U	PS 🗆 DHL	☐ USPS ☐ Customer	□ Other
Type of Ice: Wei Blue None Samples on ice: [see COC] Cooler Temperature: [see COC] Temp should be above freezing to 6°C Comments: Temperature Blank Present Comments: Temperature Blank Present: Temperature Blank When present Temp	Custody Seal on Cooler/Box F	Present: [see COC	<u>;]</u> 12		Custody Seals intact:	es □No
Cooler Temperature: [see COC] Temp should be above freezing to 6°C contents: Comments: Comments: Comments: Comments: Comments: Comments: Comments: Comments: Chain of Custody Present: Chain of Custody Complete: Chain of Custody Relinquished: Chain of Custody Complete: Chain of Custod	herometer Therm F	isher IR 6 Ty _l	pe of Ice:	Web Blue None	Samples on ice: [see C	coc]
Temperature Blank Present***? Tyes No	Cooler Temperature: [see 0	COC] Temp sh	nould be above	freezing to 6°C		nining
Chain of Custody Present: Chain of Custody Complete: Chain of Custody Relinquished: Chain of Custody Relinquished: Sampler Name & Signature on COC: Samples Arrived within Hold Time: Correct Containers Used: Correct Containers Used: Correct Containers Used: Correct Containers Used: Correct Containers Preservation Action: Correct Containers Preservation Action Correct Containers Preservation Action Correct Containers Preservation Action Correct Containers Preservation Action Correct Containers Preservation Correct Containers Preservation Correct Containers Used: Correct Containers Used: Correct Containers Used: Correct Containers Preservation Correct Containers Preservation Correct Containers Used: Correct Containers Used: Correct Containers Preservation Correct Containers Cor	emp must be measured from Te	mperature blank when prese	ent	Comments:		-
Chain of Custody Complete: Chain of Custody Relinquished: Ch	emperature Blank Present"?	<u> </u>	Yes □No □N/A	1		
Chain of Custody Relinquished: Sampler Name & Signature on COC: Samples Arrived within Hold Time: Correct Containers Used: Sillitered vol. Rec. for Diss. tests Sample Labels match COC: Sample Sample Sample Sample Sample	Chain of Custody Present:	1	Yes □No □N/A	2		
sampler Name & Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on CoC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on COC: Armonic Name Signature on CoC: Armonic Name	chain of Custody Complete:		ves □No □N/A	3	•	
Tampler Name & Signature on COC: Types No Ni/A 5 Tamples Arrived within Hold Time: Types No Ni/A 6 Torrect Containers Used: Types No Ni/A 8 Torrect Containers Used: Types No Ni/A 8 Types No Ni/A 9 Types No Ni/A 10 Types No Ni/A 11 Types No Ni/A 11 Types No Ni/A 12 Types No Ni/A 13 Types No Ni/A 14 Types No Ni/A 14 Types No Ni/A 14 Types No Ni/A 15 Types No Ni/A 14 Types No Ni/A 14 Types No Ni/A 15 Types No Ni/A 16 Types No Ni/A 17 Types No Ni/A 18 Types No Ni/A 19 Types No Ni/A 10 Types No Ni/A 11 Types No Ni/A 12 Types No Ni/A 13 Types No Ni/A 14 Types No Ni/A 14 Types No Ni/A 14 Types No Ni/A 15 Types No Ni/A Types Ni/A Types Ni/A Types Ni/A Types Ni/A Types Ni/A Type	thain of Custody Relinquished	d:	Yes □No □N/A	4		
amples Arrived within Hold Time: Mes			Yes □No □N/A	5		
ufficient Volume: Orrect Containers Used: Itered vol. Rec. for Diss. tests Imple Labels match COC: Il containers received within manafacture's recautionary and/or expiration dates. Il containers needing chemical preservation have been checked (except VOA, coliform, & O&G). Il containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be in ompliance with EPA recommendation. In containers preservation checked found to be i			Yes □No □N/A	6		
orrect Containers Used: Ves			es □No □N/A	7		
iltered vol. Rec. for Diss. tests				 		
ample Labels match COC: Ill containers received within manafacture's recautionary and/or expiration dates. Ill containers needing chemical preservation have een checked (except VOA, coliform, & O&G). Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in office the containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in office the containers preservation checked found to be in ompliance with EPA recommendation. Ill containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in office the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked found to be in only of the containers preservation checked			1 1	i		
Il containers received within manafacture's recautionary and/or expiration dates. Il containers needing chemical preservation have een checked (except VOA, coliform, & O&G). Il containers preservation checked found to be in ompliance with EPA recommendation. If No, was preserative added? If No ompliance with EPA recommendation. If No, was preserative added? If added record lot no.: HNO3		1	7			
een checked (except VOA, coliform, & O&G). Ves	II containers received within r	manafacture's				
leadspace in VOA Vials (>6mm):	een checked (except VOA, co	oliform, & O&G).		137		
rip Blank Present: Order Order Order Order Order	If containers preservation che ompliance with EPA recomme	ecked found to be in endation.	Yes □No □N/A	If No, was 13 If added re		Commence of the second of the
Client Notification/ Resolution: Person Contacted: Danylore	eadspace in VOA Vials (>6n	nm): 💷	Yes No □N/A	14	and the second s	to the southware of the con-
Person Contacted: Danyless Danyless	rip Blank Present:		res Wo	15	the second secon	e de la companya de
	lient Notification/ Resolution	on:				e e e e e e e e e e e e e e e e e e e
	erson Contacted:			·	Da nViense	
	comments/ Resolution:					***.
						entro de la compania
					a contact in the	
						** **
						Company of the compan
						e de la companya de
		···				

Attachment 3 Sampling and Monitoring Field Form



Groundwater Extraction and Treatment System (GWETS) Sampling and Monitoring Field Form Fibers Public Supply Wells Superfund Site Guayama, Puerto Rico

Collection Date	Sample ID	Collection Time	Sampler's Initials
05/05-17	TB-20170202	LAB	LAB
02-02-17	INF-20170202	1050	A-C
(1×-05-1)	EFF-20170202	1115	A'_
02-02-17	EFF-DUP-20170202	1115	AL
02-02-17	EFFMS - 20 11 02 02	1115	AC
02-02-17	EFFMSD - 2017 02-02	1115	AL

GWETS Operational Data at Sample Collection

Extraction Wells

RW-2	112.0	gpm
RW-4	165.0	gpm
RW-5	80.0	gpm

Compound Treatment System

Compound Treatment System		
Influent Flow Rate (FIT-101)	352,6	gpm
Effluent Flow Rate (FIT-301)	0.004	gpm
Blower (FIT-201A)	2190	cfm
Influent Flow Pressure (PIT-101)	2.6	psi
Effluent Flow Pressure (PIT-301)	20.8	psi
pH (pHIT-201A)	8,2	

Notes:

gpm = gallons per minute cfm = cubic feet per minute psi = pounds per square inch 16.1